

**NORTH DAKOTA PROJECT WET (WATER EDUCATION FOR TEACHERS)
WATER QUALITY/NON-POINT FOR SOURCE POLLUTION
EDUCATION PROGRAM FOR TEACHERS AND YOUTH**

NPS Project Implementation Plan

July 1, 2015 – June 30, 2017

Prepared by:

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1.01 PROJECT SUMMARY SHEET

PROJECT TITLE NAME: NORTH DAKOTA PROJECT WET (WATER EDUCATION FOR TEACHERS) WATER QUALITY/NON-POINT SOURCE POLLUTION EDUCATION PROGRAM FOR NORTH DAKOTA TEACHERS AND YOUTH

NAME AND ADDRESS, TELEPHONE AND E-MAIL OF LEAD PROJECT SPONSOR/ SUBGRANTEE:

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STATE: North Dakota

WATERSHED: Statewide

HYDROLOGIC UNIT CODE: NA

HIGH PRIORITY WATERSHED:
(YES/NO): NO

TMDL UNDER DEVELOPMENT: PENDING ____ IMPLEMENTATION ____

PROJECT TYPES	WATERBODY TYPES	NPS CATEGORY
<input type="checkbox"/> STAFFING & SUPPORT	<input type="checkbox"/> GROUNDWATER	<input type="checkbox"/> AGRICULTURE
<input type="checkbox"/> WATERSHED	<input type="checkbox"/> LAKES/RESERVOIRS	<input type="checkbox"/> URBAN RUNOFF
<input type="checkbox"/> GROUNDWATER	<input type="checkbox"/> RIVERS	<input type="checkbox"/> SILVICULTURE
<input checked="" type="checkbox"/> I&E	<input type="checkbox"/> STREAMS	<input type="checkbox"/> CONSTRUCTION
	<input type="checkbox"/> WETLANDS	<input type="checkbox"/> RESOURCE
	<input type="checkbox"/> OTHER	EXTRACTION
		<input type="checkbox"/> STOWAGE/LAND
		DISPOSAL
		<input type="checkbox"/> HYDRO
		<input type="checkbox"/> OTHER

PROJECT: STATEWIDE **X** **LATITUDE** ____ **MIN.** ____ **LONGITUDE** ____ **MIN.** ____

SUMMARIZATION OF MAJOR GOALS: The following overall goal has been established for the North Dakota Water Education/Project WET water quality/non-point source (NPS) pollution program: To increase the knowledge, understanding and appreciation through education of non point source pollution and its impact on North Dakota water resources while creating stewards that make informed decisions that reduce the number of impact occurrences and identify sustainable solutions to those impacts. The following action sub goals have also been established: 1) Develop and disseminate classroom ready and action oriented water quality and non-point source pollution water science programs statewide. 2) Provide balanced non point source pollution and water quality resource materials, educational tools, professional services,

and community support for programs that promote water resource science and education; and 3) Promote knowledge and understanding of human and natural environment impacts within the watersheds of North Dakota through local, regional and statewide education programs and opportunities.

PROJECT DESCRIPTION:

North Dakota water education program raises awareness and access to particle solution to eliminate NPS pollution and water quality issues throughout the state. Project WET (Water Education for Teachers) is a non-profit interdisciplinary water education program for formal and non formal educators, adults and young people, grades K-12. Project WET is delivered to schools and communities through extensive published resource materials, training workshops, graduate institutes, organized community water festivals, water events, and a variety of media outlets that promote awareness and understanding of diverse water topics (e.g. watersheds, non-point source pollution, and water quality) in locally, nationally and internationally.

Project WET (developed and established in North Dakota in 1984) focuses on developing innovative, interactive, hands on and user friendly water related activities that addresses current water issues with water quality, non point source pollution and stewardship of water resources. The curriculum has direct correlation to state and national education standards and creates a link between educators, resource professionals and scientist.

Project WET educational programs, resources and materials facilitate and promote learning, awareness, knowledge, exploration and stewardship of North Dakota water resources. Programs are carried out through the development of both indoor and outdoor experiences in an age appropriate, nonbiased manner that promotes critical thinking and problem solving skills.

Project WET provides a water education portal that is a dynamic Internet based resource with an interactive platform for educators, facilitators and resource personnel to participate in discussion groups and collaboration on water related issues such as water quality, water education and non point source pollution. Within the portal is a searchable index for activities by grade level, topic and subject. Within the activities posted on the portal, educators can download and upload content and find ideas for community based action projects that moves the learner from awareness to empowerment. This allows students, educators, natural resource agencies and communities to find ways to solve local water issues with sustainable solutions.

Project WET has launched DiscoverWater.org. DiscoverWater.org provides free interactive lessons and activities online. This web base program combines student friendly illustrations and animations with interactive, science based lessons about the important roles that clean water plays in our lives. This resource is free to all who want to understand water through a variety of interactive lessons that cover topics such as non point source water pollution, water quality, water cycle and more. The web experience is another tool that bring water lessons to life in a way that makes learning fun and encourages today's youth to take action to become tomorrow's responsible stewards of North Dakota's water resources.

319 funds requested: \$ 175,000; Match \$ 116,666

Other Federal Funds: \$0. 319 Funded Fulltime personnel: 1.

Total Project Cost: \$ 291,666

2.0 STATEMENT OF NEED

2.1 The North Dakota Department of Health has identified the need to deliver a balance of information and education throughout the state of North Dakota as a critical component of the NPS Pollution Management Program. Project WET water quality and NPS pollution programs serve as integral components in raising awareness and understanding of North Dakota's water resources, the importance of water on our day to day lives, current water issues and providing solutions for restoring water quality and eliminating the impact of NPS pollution on our water resources. Through awareness and understanding, Project WET water quality and NPS pollution program increase participation, knowledge and appreciation for our water resources. Inspiring public support for the development and implementation of NPS pollution management measures and healthy water quality practices.

The following table outlines the programs supported by NPS pollution and how Project WET fits this strategy:

Program	Primary Grade Level	Primary Audience
Project WET	K-12; Adults	Teachers and Students; Adults Statewide
Prairie Waters Education and Research Center	K-12; Adults	Students, Teachers; Adults regionally
Project Trees	K-6	Students and Teachers
Statewide Eco Ed	6-8	Students, Teachers and Chaperones
ND Envirothon	9-12	Students, Teachers/Advisors

Although listed programs are not limited to a specific grade level, a majority of their programming is presented to the grade level(s) noted in the table.

Each program serves a separate audience yet builds on the previous program creating a delivery network system. By using individual programs as building blocks, NPS pollution educational materials addressing impact and management solutions are being provided to a greater number of citizens over the entire span of their life.

Project WET provides the base of the "pyramid" upon which water quality/NPS pollution education is implemented in North Dakota for the targeted ages. North Dakota Project WET is a statewide service provider and is the only hands-on water quality/NPS pollution education program that is delivered to schools and communities through extensive published resource materials, training workshops, graduate institutes, organized community water festivals, water events, and a variety of interactive online resources that promote awareness and understanding of diverse water topics (e.g. watersheds, non-point source pollution, and water quality).

North Dakota Project WET water quality and NPS pollution program believes that through the efforts of the education and water resource management entities, ND Project WET office, ND Project WET facilitator network, formal and non formal educators, adults and young people, will be provoked to curiosity and appreciation of the importance of water quality/NPS pollution impacts on their water resources. Through provocation, there is knowledge and awareness that inspires positive water use, promotes involvement and fosters action in a variety of water quality/NPS pollution projects in their homes, schools, and communities. This increases the probability of a life-long commitment of stewardship for North Dakota's water resources.

Project WET Programs for K-12 Educators, Facilitators and Resource Personnel:

Inservice Workshop (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): One or two hour inservice session focusing on a particular water topic or thematic sessions can be completed. (4 per biennium)

University Preservice Workshop (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Six hour workshop offered to college students enrolled in participating North Dakota Universities. Participation can be voluntary or mandatory depending on faculty and program preference. Preservice training is completed by trained university/college faculty or by a Project WET facilitator. (6 per biennium)

Six-Hour Non Credit Workshop (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Non credit workshop offered to educators, resource personnel and community who want to gain an overall understanding of Project WET program and resources. Workshop may be issue specific or thematic. (2 per biennium)

15-Hour Credit Workshop (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): One graduate credit available through Minot State University, University of North Dakota or North Dakota State University. Credit workshop options currently available include: Project WET, Watershed Manager; Project WET/WOW! Wonders of Wetlands; Project WET/Service Learning; Project WET/Water Festival; Project WET/Healthy Water, Healthy People; Project WET/Missouri River; Project WET/Red River; and Project WET/Conserve Water. Many other options are available using these combinations. (2 per biennium)

Summer Institutes (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Project WET offers intensive summer watershed institutes for educators, resource personnel and coordinators (July of each summer). Participants may earn 3 to 4 graduate credits offered through North Dakota University System. The watershed institutes explore different regions of North Dakota on a rotation and current issue basis. (2 per biennium)

Collaborative Web Resource (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education) Collaborative effort with other programs, agencies and institutions to develop internet based resource with an interactive platform for educators, facilitators and resource personnel to link resources and participate in discussion groups and collaboration on water related issues such as water quality, water education and non point source pollution. (on going)

Project WET Programs for K-12 Youth:

Water Festivals/Celebrations (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Water festivals/celebrations can be part-day to five day hands-on events to educate youth (targeting grades 3, 4, and 5) about the importance of water in their lives. Most events include hands-on Project WET and other classroom-ready water related activities, demonstrations and exhibits. Major festivals currently held are in Bismarck, Dickinson, Fargo, Wahpeton, Mandan, Grand Forks and Kathryn (Valley City), Williston, Minot, and Fort Totten (in 2015). (18 per biennium)

Youth Camps/Youth Events (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Project WET sponsors or participates in youth camps and youth events that promote water science and water resource education. Project WET involvement can be an indoor/outdoor part-day to multi-day program to educate youth about the importance of water. Other organization sponsors can include boy and girl scouts, church-sponsored youth programs, 4-H youth programs, science center, museums, environmental learning centers, zoos, soil conservation district Eco-ed programs, envirothon and state park youth programs. (10 per biennium)

Project WET Programs for all North Dakota Citizens:

Family and Community Centered Program (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Project WET participates in many family and community centered events. Often, family and community programs are developed with youth water festivals, community art/craft shows, youth and community exhibitions, community recognition events, local historical events, youth camps, local, county and/or state fairs and many other events. They can also be developed as a stand alone program to educate the general public about water resource issues. (4 per biennium)

Water Action/Community Service Learning Projects (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Community action/service learning projects get teachers and students involved in tackling water-related problems or issues, or that aim at improving an environmental setting. Projects can take place at home, in the school, in the community and on the farm (anywhere in a local watershed). (on going)

Interactive Web-page (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Interactive web-page allowing public access to water related internet resources that promote education, understanding and participation in reducing NPS pollution impact and promoting healthy water quality practices. (on going)

Interactive Web-page (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): **North Dakota Project WET will maintain** Interactive web page allowing public access to water related internet resources, publications, and interactive programs that promote education, understanding and participation in reducing NPS pollution impact and promoting healthy water quality practices. (on going)

2.2 Project WET targets the following youth groups and those groups or individuals that work with youth:

- K-12 public and private classroom teachers
- Preschool and daycare educators
- Youth organization leaders (i.e. 4-H, scouts, church, etc.)
- Preservice faculty and students
- Resource agency educators and outreach specialists
- Natural resource program educators
- local, state and federal park interpreters and rangers
- Home school educators

- Corporate community educators
- Zoo educational staff
- Museum, nature and science center staff
- K-12 students (all situations, groups, organizations and functions)
- Community leaders
- Adults and general public

North Dakota Project WET program is dedicated to increasing the knowledge, understanding and appreciation through education of non point source pollution and water quality issues and its impact on North Dakota water resources. While creating stewards that are confident in their abilities that make informed decisions that reduce the number of impact occurrences and identifying sustainable solutions to today's, tomorrow's and yesterday's water issues.

3.0 PROJECT DESCRIPTION

3.1 Project Goals: The overall goal of the Project WET water quality/nonpoint source pollution education program is: To increase K-12 educator, youth and community knowledge, understanding and appreciation of NPS pollution and its impact on North Dakota water resources while creating stewards that make informed decisions and identify sustainable solutions to those impacts. The following action subgoals have also been established.

- 1) To facilitate and promote the learning and exploration of North Dakota's water quality/NPS pollution issues through the development and delivery of indoor and outdoor water quality and non-point source pollution, water science, and water education programs statewide; and
- 2) To provide balanced water quality/NPS pollution resource information, and classroom and outdoor ready education tools, services, programs and resource materials needed for teachers and youth to make informed decisions about future North Dakota water quality/NPS pollution management and impact solutions; and
- 3) To promote the wise stewardship of North Dakota's water resources and their interaction with both the human and natural environment within the watersheds of North Dakota through enhancement of water quality/NPS pollution education programs and opportunities.

In order to meet these goals, the Project WET water quality/NPS program provides hands-on and interactive classroom and outdoor-ready NPS pollution/water quality education programs to K-12 formal and non-formal educators, K-12 youth, youth organization leaders, resource agency educators, natural resource program personnel and community residents through educational materials, resources, and technology. K-12 educator and K-12 youth programs are detailed in the Project Description.

3.2 Objectives/Tasks: Specific objectives and underlying tasks for the FY 2013 NPS Pollution Project Implementation Plan (PIP) for the period of July 1, 2015 – June 30, 2017 are defined in this section.

Objective 1. Provide Project WET management and support systems to develop and deliver effective NPS pollution/water quality and water education/water science programs **(\$175,000)**.

Task 1. Employ a project manager and incorporate other non-state employees (Project WET facilitators) to provide necessary management and direction for implementation and delivery of project objectives/tasks. Includes travel/per diem and costs associated with onsite and offsite delivery of project programs for the project manager and non-state employees (25-35 facilitators).

Product: Personnel for ongoing program development, management and implementation of project.

Cost: \$ 161,000

Task 2. Maintain cost of support services to project objectives/tasks directed toward targeted teachers and youth (miscellaneous supplies, postage to send educational material to sites, printing of educational and supporting materials, and equipment, etc.).

Product: Provision of necessary support to augment Project WET NPS pollution/solutions and water quality educational resources, services and materials to teachers and youth.

Cost: \$ 7,000

Task 3. Support the cost of service contracts (variable to the project at hand, average contracts 30) with Project WET NPS pollution education providers and consultants .

Product: Mechanisms to promote, access and implement Project WET NPS pollution/water quality educational resources, materials and programs.

Cost: \$ 7,000

Objective 2. Maintain classroom-ready and STEM (Science, Technology, Engineering, and Mathematics) based teaching aids in support of Project WET educational efforts **(\$23,333)**.

Task 4. Maintain six Project WET NPS pollution/solutions and water quality educational trunks (description in Appendix).

Product: Teacher/youth interactive participation with use of trunks.

Cost: \$ 467

Task 5. Maintain Project WET water quality and NPS pollution and solutions hands-on curriculum and other NPS pollution /water education materials and resources (Project WET Activity Guides 2.0 supplemental Project WET materials; water quality resource education curriculums and NPS pollution/water quality materials) for K-12 formal and non-formal educators and youth.

Product: Easy to use, hands-on, innovative curriculum, interactive web based learning programs, supplemental resources, balanced and interactive NPS pollution and water quality resources and water science education resource materials for K-12 formal and non-formal educators and youth.

Cost: \$ 20,766

Task 6. Purchase new and maintain existing indoor/outdoor water quality training and education resources (water quality chemical, biological, physical monitoring resources, hip/boot/chest waders, other appropriate NPS pollution and water quality equipment, materials and resources that enhance NPS pollution/solutions and water quality education).

Product: Methods to educate and monitor NPS pollution/solutions and water quality for all types of real world water resource environments in North Dakota.

Cost: \$ 2,100

Objective 3.

Complete water quality/NPS pollution/solutions educational opportunities for 20,000 K-12 formal and non-formal educators, youth and adults to expand their knowledge and understanding of water quality/NPS pollution/solutions resource issues in North Dakota (**\$61,250**).

Task 7. Provide and complete varying level non-credit and credit facilitator led Project WET water quality/NPS pollution and solutions educational programs (in-service and pre-service) for 520 formal and non-formal K-12 educators (includes stipend. Does not include travel/per diem costs of non-state employees – Project WET facilitators).

Product: 520 formal and non-formal K-12 educators who gain a knowledge, appreciation and understanding of ND water quality/NPS pollution and solutions resource issues.

Cost: \$ 9,188

Task 8. Provide funds to selected organizations to promote, develop, and complete ten community/area-wide NPS pollution

and solutions water quality education festivals for 35,000 various age youth (Make A Splash with Project WET festivals).

Product: Completion of ten community /area-wide, high-profile and balanced educational NPS pollution/solutions water quality education festivals for 35,000 middle and upper elementary youth and their teachers, thereby increasing appreciation, knowledge, understanding and appreciation of ND water quality/NPS pollution and solutions issues.

Cost: \$ 6,891

Task 9. Provide and complete varying level water quality/NPS pollution and solutions education programs for 10,000 K-12 youth at camps, school water education programs, and other community environmental education events for youth and adults addressing NPS pollution and water quality issues (includes stipend but does not include travel/per diem of non state employees – Project WET facilitators). Costs provide funding to only pay trained Project WET facilitators a stipend to help develop and complete these programs. Costs do not include any funding for Project WET Director.

Product: Completion of Project WET water quality/NPS pollution programs for 10,000 K-12 youth at camps, school water education programs, water festivals and other youth/adult NPS pollution and water quality community education events.

Cost: \$ 12,250

Task 10. Develop and implement a total of one Discover Today's Watershed Institutes for 30 formal and non-formal K-12 educators with three or four graduate credits for each institute (includes stipend but does not include travel/per diem for non-state employees – Project WET facilitators). Costs provide funding to only pay Project WET facilitators a stipend to help complete these institutes. Costs do not include any funding for Project WET Director.

Product: 30 educators who gain an in-depth knowledge, appreciation and understanding of contemporary North Dakota watershed, water quality and NPS pollution and solutions issues.

Cost: \$ 12,250

Task 11. Maintain two statewide water education poster contests for 5,000 grade 6 youth with the theme of "Help Prevent Runoff Pollution."

Product: 5,000 grade 6 students receive an opportunity to develop fine art skills while depicting their understanding of NPS pollution/solutions and water quality issues.

Cost: \$ 3,062

Objective 4.

Maintain the Project WET facilitator network of 25-30 formal and non-formal trained educators who help promote and enable Project WET water quality/NPS pollution and solutions educational resources, materials and opportunities to be delivered statewide to teachers and youth **(\$20,417)**.

Task 12. Maintain Project WET water quality/NPS pollution and solutions trained network of 25-30 formal and non-formal facilitators, including recognition and incentive program for facilitators.

Product: Methods to maintain existing facilitator network of 25-30 active facilitators and materials to recognize and provide incentives (Awards, items with logo and years of service, educational materials, participation in educational opportunities, networking opportunities) to the Project WET facilitator network.

Cost: \$ 10,413

Task 13. Complete one statewide facilitator leadership training workshop for 20 additional K-12 formal and non-formal educators.

Product: 20 additional motivated and trained K-12 formal and non-formal educators to promote and deliver Project WET NPS pollution educational resources, materials and programs across North Dakota.

Cost: \$ 10,005

Objective 5.

Provide a method of ongoing monitoring, evaluation, oversight and direction through four Advisory Committee meetings and through evaluation of Project accomplishments, objectives, task outputs and benefits. Current Project WET Advisory Committee members and their representative schools are listed under PROJECT EVALUATION AND MONITORING PLAN ROLES AND RESPONSIBILITIES Number 1 – Project WET Advisory Committee in the APPENDIX **(\$2,917)**.

Task 14. Complete four Project WET Advisory Committee meetings to monitor and evaluate along with provide oversight and direction for Project WET water quality/NPS pollution programs.

Product: Method to monitor, evaluate and provide direction to Project WET water quality/NPS pollution objectives/tasks through four Project WET Advisory Committee meetings.

Cost: \$ 1,663

Task 15. Complete various methods to track and measure (evaluate) Project objectives, task outputs, benefits and accomplishments.

Product: Methods to monitor and evaluate progress toward accomplishment of Project objectives, task outputs and benefits. Specific methods that will be used to track and measure progress and benefits to Project targeted groups is defined in Section 5.1 EVALUATION AND MONITORING PLAN.

Cost: \$ 1,254

Objective 6.

Develop and implement the use of technology to promote web based resources, materials and innovative interactive programs that facilitate discovery, knowledge, understanding and appreciation of NPS pollution and water quality impacts and encourage K-12 educators, youth and adults to take action in sustainable solutions. (\$8,750).

Task 16. Develop a web page for ND Project Wet water quality/NPS pollution/ solutions that will improve and increase delivery of resources and materials to K-12 educators, youth and adults.

Product: A dynamic web page linking to interactive learning programs and resources.

Cost: \$ 3,500

Task 17. Purchase and maintain technology (Adobe Creative Suite, Dream Weaver, applications, productivity software) and equipment (touchscreen interfaces for 24" imac, ipads, and supporting hardware) to support the delivery of web-based learning of NPS pollution and water quality programs.

Product: Innovative tool that allows K-12 educators, youth and the general public experience STEM based learning of NPS pollution and water quality issues and solutions.

Cost: \$ 5,250

3.3 MILESTONE TABLE FOR PROJECT WET WATER QUALITY/NPS POLLUTION EDUCATION PROGRAM FOR TEACHERS AND YOUTH

July 1, 2015 – June 30, 2017

PROJECT OBJECTIVE AND TASKS	RESPONSIBLE ORGANIZATIONS	OUTPUT	YEAR 1 - 2	
			July 1, 2015	June 30, 2017
OBJECTIVE 1: MAINTAIN PROJECT WET MANAGEMENT AND SUPPORT SYSTEMS. Task 1: Employ a Project Director. a. Salary/Fringe b. Travel/Per Diem (includes non-state employees = facilitators)	NDSWC/Project Director	Project Staff and Project Facilitators	Ongoing – July 1, 2015 – June 30, 2017	
Task 2: Maintain cost of support services. a. Office Equipment/Supplies b. Postage/Printing c. Miscellaneous Supplies	NDSWC/Project Director	Project Support Services	Ongoing - July 1, 2015 – June 30, 2017	
Task 3: Support the cost of service contracts. a. Statewide Teacher Center b. Chemistry kits/water boots	NDSWC/Project Director; Involved Contractees	Mechanisms to Implement Project Services through Contracts	Ongoing – July 1, 2015 - June 30, 2017	
OBJECTIVE 2: MAINTAINS CLASSROOM – READY TEACHING AIDS. Task 4: Maintain Six Project WET NPS pollution/ water quality trunks/exhibits (EnviroScape).	NDSWC/Project Director	Use and Maintenance of Project Trunk/Exhibits	Ongoing – July 1, 2015 – June 30, 2017	
Task 5: Maintain Project WET NPS pollution/water quality curriculum/educational materials. a. National Project WET Activity Guides 2.0 b. National Project WET Portal c. National Project WET supplemental water education materials d. Other water quality/NPS pollution education materials and curriculum.	NDSWC/Project Director	Purchase and Maintenance of Project NPS Pollution and Water Quality Educational Materials and Resources	Ongoing – July 1, 2015 – June 30, 2017	

PROJECT OBJECTIVE AND TASKS	RESPONSIBLE ORGANIZATIONS	OUTPUT	YEAR 1 - 2 July 1, 2015 June 30, 2017
<p>Task 6: Purchase new and maintain existing indoor/outdoor water quality/NPS pollution education and training resources.</p> <ul style="list-style-type: none"> a. Repair and restock existing water quality test kits. b. Repair and replace hip boots/chest waders. c. Purchase other NPS Pollution/ water quality education/ training resources. 	NDSWC/Project Director; Contracted Project WET Facilitator	Purchase and Maintenance of NPS pollution/ Water Quality Indoor/Outdoor Materials and Resources	Ongoing – July 1, 2015 – June 30, 2017
<p>OBJECTIVE 3: COMPLETE EDUCATIONAL OPPORTUNITIES FOR 38,100 K-12 FORMAL AND NON-FORMAL EDUCATORS, YOUTH AND ADULTS.</p> <p>Task 7: Provide and complete varying level credit/non-credit educational programs for 980 formal and non-formal K-12 educators.</p> <ul style="list-style-type: none"> a. 1 hour and variable hour inservice for educators b. 6 hour non/credit preservice workshops for educators c. 15 hour credit workshops involving educators 	ND SWC/Project Director and Facilitators; Other Agencies, Organizations and Individuals	520 Knowledgeable Educators and Students on NPS Pollution/Solution, Water Quality Resources and Water Resource Issues	Ongoing – July 1, 2015 – June 30, 2017
<p>Task 8: Provide funds to selected organizations to develop and complete 22 NPS pollution and water quality festivals (Make a Splash with Project WET) involving 35,000 third, fourth and fifth graders.</p>	NDSWC/Project Director and Facilitators; Involved Organizations	Completion of Selected NPS Pollution/Water Quality Festivals for 35,000 students.	April/May 2015 through April/May 2017; September/October 2015 through September/October 2017
<p>Task 9: Provide and complete varying level NPS/pollution water quality education programs for 10,000 K-12 youth and adults at camps/school programs, other youth water education events and at public water education events.</p>	NDSWC/Project Director and Facilitators; Other Involved Agencies and Organizations	10,000 Knowledgeable K-12 Students on NPS Pollution and Water Quality Issues	Ongoing – July 1, 2015 – June 30, 2017

PROJECT OBJECTIVE AND TASKS	RESPONSIBLE ORGANIZATIONS	OUTPUT	YEAR 1 - 2 July 1, 2015 June 30, 2017
Task 10: Develop and implement four Discover Today's Watershed Institutes for 30 formal and non-formal K-12 educators (three or four graduate credits each).	NDSWC Project WET Director and Facilitators; Other Involved Agencies, Individuals and Organizations	In-depth Understanding of Contemporary ND Watershed, Nonpoint Source Pollution and Water Quality Issues and Concerns for 30 educators	Ongoing – July 1, 2015 – June 30, 2017
Task 11: Develop and implement four statewide NPS pollution/ water quality education poster contests involving 5,000 grade 6 youth with theme of "Help Prevent Runoff Pollution."	NDSWC/Project WET Director; KNDC; Grade Six Teachers and Youth	5,000 Grade 6 Student Understanding of NPS Pollution/Water Quality Impacts	January/April 2015 – January/April 2017
OBJECTIVE 4: MAINTAIN FACILITATOR NETWORK AND RECOGNITION AND INCENTIVE SUPPORT SYSTEM OF 25-30 PROJECT WET FACILITATORS. Task 12: Maintain facilitator network of 25-35 educators, and facilitator recognition and incentive programs. <ul style="list-style-type: none"> a. Facilitator recognition and incentive programs b. Attend Project WET promotional meetings/conferences. 	NDSWC/Project Director and Facilitators; Other Involved Agencies and Organizations	25-35 Motivated and Trained Project WET Facilitators to Complete Project Objectives/Tasks; Informed K-12 Educators and Interested persons	Ongoing – July 1, 2015 – June 30, 2017
OBJECTIVE 5: PROVIDE A METHOD FOR ONGOING MONITORING, EVALUATION, OVERSIGHT AND DIRECTION THROUGH EIGHT PROJECT WET ADVISORY COMMITTEE MEETINGS AND THROUGH EVALUATION OF PROJECT ACCOMPLISHMENTS, OBJECTIVES, TASK OUTPUTS, AND BENEFITS.			

PROJECT OBJECTIVE AND TASKS	RESPONSIBLE ORGANIZATIONS	OUTPUT	YEAR 1 - 2 July 1, 2015 June 30, 2017
Task 14: Conduct eight meetings of Project WET Advisory Committee (see Appendix for current Advisory Committee members).	NDSWC/Project Director and Advisory Committee Members	Method to assess and evaluate Project Objectives and Tasks through four meetings	Periodic as Needed - July 1, 2015 – June 30, 2017
Task 15: Complete various methods to track and measure (evaluate) Project objectives, task outputs, benefits and accomplishments (see Section 5.1 for specific methods and Appendix for examples).	NDSWC/Project Director; Project Facilitators; Project Program Participants; and Participating Organizations	Methods to Track and Measure Project and Objectives Tasks through Formal Evaluation Techniques	Periodic as Needed - July 1, 2015 – June 30, 2017
<p>OBJECTIVE 6: DEVELOP AND IMPLEMENT THE USE OF TECHNOLOGY TO PROMOTE WEB/STEM BASED RESOURCES, MATERIALS AND INNOVATIVE, INTERACTIVE PROGRAMS THAT FACILITATE DISCOVERY, KNOWLEDGE, UNDERSTANDING AND APPRECIATION OF NPS POLLUTION AND WATER QUALITY IMPACTS AND ENCOURAGE K-12 EDUCATORS, YOUTH AND ADULTS TO TAKE ACTION TOWARDS SUSTAINABLE SOLUTIONS TO THESE IMPACTS.</p> <p>Task 16: Develop and maintain a web page for ND Project Wet water quality/NPS pollution/ solutions that will improve and increase delivery of resources and materials to K-12 educators, youth and adults</p>	NDSWC/Project Director and Project Facilitators	A dynamic web page linking to interactive learning programs and resources.	Ongoing – July 1, 2015 – June 30, 2017
Task 17: Purchase and maintain technology and equipment to support dissemination of STEM based learning of NPS pollution, and water quality impacts/solutions.	NDSWC/Project Director and Project Facilitators	Innovative tool that allows K-12 educators, youth and the general public experience web based learning of NPS pollution and water quality issues and solutions.	Ongoing – July 1, 2015 – June 30, 2017

- 3.4** North Dakota Project WET, developed and implemented in 1984 by the ND State Water Commission, was the first Project WET program in the United States/world. North Dakota Project WET, through the ND State Water Commission, has a proven history of developing and implementing comprehensive water quality/NPS pollution programs for K-12 youth and adults. Project WET is the only statewide program in North Dakota that produces, uses and delivers hands-on NPS pollution, water quality and impact solution education programs to K-12 educators and youth. **A comprehensive listing of the history of North Dakota Project WET can be found in the Appendix under HISTORY OF NORTH DAKOTA PROJECT WET.**

4.0 COORDINATION PLAN

- 4.1** The North Dakota State Water Commission (NDSWC), 900 East Boulevard Avenue, Bismarck, ND 58505 is the lead sponsor of the North Dakota Project WET NPS Pollution/Water Quality Program. The NDSWC operates in pursuit of three main goals:
- To regulate the use of water resources for the future welfare and prosperity of the people of North Dakota;
 - To develop the use of water resources for the future welfare and prosperity of the people of North Dakota; and
 - To educate the public regarding the nature and occurrence of North Dakota's water resources.

The 1983 water management plan public planning process determined that the North Dakota general public, as well as teachers and youth, knew very little about North Dakota, watershed or water resource issues. As a result, a general adult and teacher water education program was initiated in 1984. During the period of 1985 through 1989 Project WET was developed and implemented by the NDSWC using North Dakota water education materials and resources. The NDSWC's Project WET North Dakota gained national attention and recognition and soon became a model for other states wanting to develop hands-on water resource education curriculum. In 1989, the NDSWC's Project WET program was pilot tested in Arizona, Idaho and Montana. This successful pilot test was the basis for the development of the National Project WET Program. The NDSWC began a far reaching enhancement and expansion of its Project WET program in 1993 through the Section 319 Nonpoint Source Pollution Program of the Environmental Protection Agency. The NDSWC has a demonstrated and proven record of developing and implementing innovative water and water quality/NPS pollution programs in North Dakota since 1993. Providing Water Education is still a priority in NDSWC Strategic plan to date.

The NDSWC is the only sponsoring organization for the administration, management and implementation of the Project WET Water Quality/NPS Pollution Program for teachers and youth in North Dakota. There are no other entities, either through formal or informal agreements that sponsor the Project WET program.

Project WET North Dakota is funded partly with a Section 319 EPA Nonpoint Source Pollution Grant administered through the North Dakota Department of Health (NDDH) and sanctioned by the ND Nonpoint Source Task Force (NDNPSTF). A Section 319 NPS Pollution Project Implementation Plan (PIP) is submitted to both the NDDH and the NDNPSTF on a biennial basis. The NDSWC and the NDDH enter into a formal contract on an annual basis which formalizes the pass through of Section 319 NPS Pollution EPA funds and delineates the responsibilities of each organization in the delivery of the

Project WET program. North Dakota Project WET is also funded through state general funds, fees charged to educators attending graduate credit programs and non-federal match.

- 4.2 Since 1984 North Dakota Project WET has had the support of local water, environmental, and education organizations. The North Dakota Water Resource Districts and North Dakota Water Users Associations have been instrumental in providing time, energy, and in certain instances, financial support to Project WET. Since 1993 the ND Water Education Foundation has supported the water education programs of Project WET with collaborative discussions. The local nine teacher learning centers (now completed through the statewide teacher center network) in North Dakota have provided their support of Project WET by helping promote its educational opportunities to K-12 educators statewide. The ND Department of Public Instruction and the ND Educational Standards and Practices Board have provided support through alignment of Project WET credit programs with current K-12 educator continuing education requirements (eg. No Child Left Behind). The institutions of higher education, which provide graduate credit for Project WET workshops and institutes, have also aligned Project WET credit opportunities in the core subject areas to meet K-12 educator certification standards. Teacher education associations and organizations (NDEA, NDSTA, NDGA,) have supported Project WET through ongoing invitations for Project WET to provide educational displays and presentations at association/organization meetings. Local school districts have requested Project WET educational opportunities to be presented at their schools. Natural resource agencies (USGS, SCD's, NDPRD, NDSU Extension Service, etc.) have asked Project WET to complete collaborative educational programs. Various other community and/or natural resource organizations have expressed their desire for Project WET to be involved in their environmental education efforts (Dakota Zoo, River Keepers, Dakota Science Center, Bismarck Public School system, Morton County Soil Conservation District, Gateway to Science, ND Outdoor Learning Centers, Prairie Waters Education and Research Center, Sully's Hill Natural Resources Program, etc.).
- 4.3 The ND State Water Commission's Project WET Program has a long history of coordination, cooperation, networking and interfacing with a wide array of local, state and federal water and natural resource related agencies, organizations, associations and programs in North Dakota, and many at the national level. Project WET has also been connected closely with the educational and environmental education community in North Dakota. The success of Project WET has been dependent upon this cooperative spirit. It has long been realized that the State Water Commission's Project WET Program, in carrying out its mission of water quality/NPS Pollution education for K-12 educators and youth, must aggressively pursue coordinated resources, expertise and active participation of a wide array of educational, water and natural resource and environmental education entities.

Educational: Project WET fosters formal and informal communication and networking with a host of educational linkages. An agreement with the statewide ND Teacher Center Network is executed every year. This agreement provides for the promotion of Project WET educational opportunities in local school districts statewide. Project WET communicates on a regular basis with the Minot State University, Dakota College of Bottineau, NDSU and UND continuing education departments regarding course proposal, cost and credit requirements for each of the institutions. The majority of Project WET formal educator offerings are accredited through these departments in their

respective institutions. Project WET networks with the ND Department of Public Instruction and the ND Educational Standards and Practices Board to make sure its water education credit offerings meet current ND and national education standards that benefit ND formal K-12 educators. Project WET collaborates with the education departments and promotes water education programs for preservice teachers at two ND colleges and universities. Project WET has built linkages with the ND Education Association, the ND Science Teachers Association, the ND Home Educator's Association, the ND Geographic Alliance, the ND Reading Association, the ND Principals Association, the ND Superintendents Association and the ND Health and Physical Education Association. Promotional displays and educational presentations have been completed at many of these association annual conferences since the late 1980s. Project WET has participated in the annual State Science and Engineering Fair since 1996 by providing awards for the best water quality/NPS Pollution projects in the junior and senior student divisions. Project WET is involved with Sitting Bull College in developing a water festival for Standing Rock Community Schools.

Water and Natural Resources: Project WET continues to interface, collaborate and network with the ND water and natural resource community. Project WET involves all of the following agencies or organizations at various times in developing and completing its educational programs for K-12 educators and youth. Included are the ND State Water Commission, the ND Water Resource Districts and Water Users Associations, the ND Water Users Coalition, the ND Water Education Foundation, the ND Soil Conservation Districts Association, the ND Department of Health, the US Geological Survey, the US Bureau of Reclamation, the US Fish and Wildlife Service, the US Natural Resources Conservation Service, the US Army Corps of Engineers, the ND Forest Service, the ND Parks and Recreation Department, the Historical Society of ND, the ND Game and Fish Department and the ND Soil Conservation Districts.

Business and Industry: Project WET in North Dakota collaborates and networks with a wide variety of private and public business and industry in the development and implementation of the summer watershed institutes. Through contacts and tours, each summer institute expose Project WET NPS pollution/water quality goals and programs to energy, irrigation, agricultural processing and other ND industries. The Project WET director meets with the managers and public relations staff of these industries to promote water quality/NPS pollution education for teachers and students. Water quality/NPS pollution and water use in action is a very important educational component of Project WET. Each institute introduces as many as three to seven new industries/businesses to teachers attending the institute.

Environmental Education: Project WET continues to collaborate and network with the environmental education organizations in ND. One of the most important is the Coalition for Conservation and Environmental Education (C²E²). Project WET has been involved with this organization since it was initiated in 1995. All meetings have been attended and Project WET has been involved in helping complete all publications, resources and projects produced or initiated through C²E². Project WET routinely collaborates with the coordinators of Project Learning Tree (PLT), and Project Food, Land and People (FLP) and other major natural resource/environmental education programs in ND to support the education of K-12 educators and youth. Project WET continues to collaborate and network with the ND Outdoor Learning Centers, Sully's Hill Outdoor Learning Center and the Turtle River Outdoor Learning Center. Project WET has been involved in the non-profit organization Keep North Dakota Clean (KNDC) Project since 1998. Project WET

has helped sponsor their statewide environmental youth (grades 1-8) poster contest by sponsoring grade level six which has a NPS pollution/water quality theme. Project WET has jointly coordinated water education programs with the girl and boy scout organizations in North Dakota as well as 4-H youth including youth leaders in all of these organizations. Project WET was involved in the planning and implementation of the Red River and You watershed education program sponsored by the Red River Basin Commission from 2002-2012. Project WET has been involved with the ND Soil Conservation Districts Eco-Ed youth environmental education program since 1996, having presented the water quality/NPS pollution section at over 175 of these events. Project WET has been involved with the planning and implementation of the ND Envirothon since 1999 and serves on its logistics and steering committee and helps develop the water quality/NPS pollution (Aquatics) component of this program. Project WET has attended many of the Project WET USA national conferences since they were initiated in 1995. This involvement has provided an opportunity to network with and learn from the other state Project WET programs and how they implement water quality/NPS pollution water education in their respective states. Project WET was involved in the development of the first Earth Day celebration in Bismarck in 2008 - 2012.

Project WET Advisory Committee: The Project WET Advisory Committee has an important role in ongoing monitoring and evaluation of Project WET water quality/NPS pollution education activities. The Project director networks and collaborates with this Committee on an ongoing basis. All Advisory Committee members are Project WET facilitators and are actively involved in ongoing monitoring and evaluation through personal participation in Project WET programming. Monitoring and evaluation through the Advisory Committee is completed through e-mail, mail, the telephone and regular meetings.

Project Wet water quality/NPS pollution programming described in this plan are reviewed by the Advisory Committee. The Advisory Committee can recommend changes in planned programming as a result of their review. The Project director has final overall responsibility in direction of planned programming.

The primary role of the Advisory Committee is to:

- Assist in determination of program and resource needs and the monitoring and evaluation of Project WET and its overall programs, activities and accomplishments;
- Provide consultation and technical assistance in the implementation, maintenance, direction and future of Project WET;
- Assist in coordinating and networking Project WET with the educational and water communities at all levels and with other water related and environmental education providers and programs; and
- Assist in stimulating school, teacher and youth, natural and water resource and public leader interest in Project WET.

Current Project WET Advisory Committee members are:

Dakota College of Bottineau
Fargo School
Bismarck School
Dickinson School
Private Non-profit, River Keepers
North Dakota State University

North Dakota Department of Health
University of North Dakota

- 4.4** Project WET is the only hands-on statewide water science and water quality/NPS pollution education program operating in North Dakota for K-12 formal/nonformal educators, K-12 students, and general adult population. It is the only statewide water quality/NPS pollution education program that produces and uses comprehensive water quality education curriculum, resource materials and internet resources in all potential settings of K-12 educators and youth. Project will be expanding to include early childhood (pre K- K) students. Project WET is the only statewide water quality education program in ND that directs its entire program to water education. Project WET is involved in and collaborates with all other Information/Education 319 NPS pollution funded programs in North Dakota as part of the North Dakota nonpoint Source Pollution Management Program plan for information and education goal and objectives. Project WET is recognized in North Dakota nonpoint Source Pollution Management Program plan for its unique water quality education program and unique placement in the water quality/NPS pollution education program in North Dakota. There are no other similar 319 NPS pollution funded programs in North Dakota. Therefore, there is no duplication or replication of 319 NPS pollution funding.

5.0 EVALUATION AND MONITORING PLAN

- 5.1** The State Water Commission's WET Program utilizes a variety of organizations, which aid in monitoring and evaluating the extent of success in meeting the goals, objectives and tasks as delineated in this plan. These include: 1) the Project WET Advisory Committee; 2) teachers and youth involved in utilizing and/or attending Project WET water quality/NPS initiatives; 3) water related agencies, organizations and/or associations directly and indirectly participating in Project WET water quality/NPS initiatives; 4) schools and higher education institutions sponsoring programs and/or credit; 5) Project WET facilitators; 6) the Project WET director through the 319 Non-point Source Pollution Project Implementation Plan; 7) the ND State Water Commission; and 8) the ND State Legislature. **A description of the roles and responsibilities of these entities can be found in the Appendix " project evaluation and monitoring plan roles and responsibilities. A description of the cumulative successes and accomplishments of the Project can be found in the Appendix as CUMULATIVE PROGRESS (July 1, 2009 – September 30, 2014).**

The following depicts specific methods that will be used to track and measure progress and benefits to targeted groups served by the Project. Described will be specific actions/measures (what, when, where, and how) that will be used to evaluate and monitor progress toward accomplishment of task outputs and objective endpoints. The Project will use questionnaires/surveys and audience feedback to: 1) track the degree to which teachers are satisfied with training received and their planned use of Project resources, materials and training in the classroom; 2) evaluate planned changes in student and teacher understanding of learning taken; and 3) document participant numbers and satisfaction with the program.

Since the start of the Project WET NPS Pollution/Water Quality Program for Teachers and Youth in 1993, exit surveys have been provided to all educators that have completed a one, two, three and four credit graduate level workshop or institute. These surveys have provided objective information and evaluation on teacher learning obtained from all educational components instructed, the educational quality and usefulness of materials and resources provided, the quality of the instructors, the quality and

usefulness of the methods and techniques of instruction, the overall value of the workshop/institute to their school curriculum standards and grade and subject levels taught and their planned use of materials in their classroom with students. These exit surveys will be continued and results (located in appendix) will be incorporated into the annual report for the NPS Pollution grant.

Additionally, Project WET will begin to have all non-credit six hour program participants complete an exit survey with results also incorporated into the annual report for the NPS Pollution grant.

Some youth programs (water festivals, eco ed programs, environmental festivals, Earth Day, etc.) that the Project WET NPS pollution/water quality program is involved in, but is not the primary organizer, generally complete exit surveys of the various groups involved in the program (ie. teachers, youth, volunteers, presenters, etc.). Of course, for any Project WET NPS Pollution/water quality youth programs that are organized and completed through just Project WET, all participants will be required to complete an exit survey which assess learning and basic understanding of learned program components. These survey results will be incorporated into the annual report for the NPS Pollution grant.

A COMPILATION OF THE EXIT QUESTIONNAIRES/SURVEYS CURRENTLY USED WITH THE PROJECT APPEARS IN THE APPENDIX UNDER PROJECT EVALUATION METHODS. The following summarizes the various methods found in the above referenced Appendix.

- multiple credit summer watershed institute evaluation (exit survey)
- water festival presenter evaluation (exit survey)
- water festival teacher evaluation (exit survey)
- example of a page from a student water festival evaluation/journal
- Minot State University, North Dakota State University and University of North Dakota exit survey from single and multiple teacher credit programs

6.0 PART ONE

**BUDGET TABLE FOR NORTH DAKOTA PROJECT WET WATER QUALITY/NPS POLLUTION
EDUCATION PROGRAM FOR TEACHERS AND YOUTH
July 1, 2015 – June 30, 2017**

PROJECT YEAR	JULY 1, 2015 – JUNE 30, 2016	JULY 1, 2016 – JUNE 30, 2017	July 1, 2015 – June 30, 2017 TOTAL
EPA REQUESTED	\$87,500	\$87,500	\$175,000
STATE FUNDS	\$58,333	\$58,333	\$116,666
TOTAL PROJECT COSTS	\$145,833	\$145,833	\$291,666

6.0 PART TWO
BUDGET TABLE FOR PROJECT WET WATER QUALITY/NPS POLLUTION EDUCATION PROGRAM
FOR TEACHERS AND YOUTH
July 1, 2015 – June 30, 2017

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
OBJECTIVE 1: PROJECT WET MANAGEMENT AND SUPPORT SYSTEMS.	\$105,000	\$70,000	\$175,000
Task 1: Employ a Project Director	96,600	88,867	161,000
a. Salary/Fringe	72,450	48,300	120,750
b. Travel/Per Diem (including non-state employees = facilitators)	24,150	16,100	40,250
	4,200	2,800	7,000
Task 2: Maintain cost of support services.	840	560	1,400
a. Office Equipment/Supplies	2,100	1,400	3,500
b. Postage/Printing	1,260	840	2,100
c. Miscellaneous Supplies	4,200	2,800	7,000
Task 3: Support the cost of service contracts.	2,520	1,680	4,200
a. Statewide Teacher Network	1,680	1,120	2,800
b. Water Quality and non point pollution supporting curriculum and supplies.			

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
OBJECTIVE 2: MAINTAIN CLASSROOM – READY TEACHING AIDS	\$14,000	\$9,333	\$23,333
Task 4: Maintain Six Project WET Trunks.	280	187	467
Task 5: Maintain Project WET curriculum/educational materials.	12,460	8,306	20,766
a. National Project WET Activity guide	2,866	1,910	4,776
b. National Project WET supplemental water education materials	8,597	5,731	14,328
c. Other water quality/NPS Pollution education materials	997	665	1,662
Task 6: Purchase new and maintain existing indoor/outdoor water quality/ NPS Pollution education and training resources.	1,260	840	2,100
a. Repair and restock existing water quality test kits.	391	260	651
b. Purchase other water quality/NPS pollution education/training resources.	869	580	1,449

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
OBJECTIVE 3: COMPLETE EDUCATIONAL OPPORTUNITIES FOR 38,100 K-12 FORMAL AND NON-FORMAL EDUCATORS, YOUTH AND ADULTS	\$36,750	\$24,500	\$61,250
Task 7: Provide and complete varying level credit/non-credit educational programs for 980 formal and nonformal educators.	5,513	3,675	9,188
a. 1 hour workshops for 600 educators	1,268	845	2,113
b. 6 hour non-credit preservice workshops for 120 educators	110	74	184
c. 15 hour credit workshops involving 160 educators	4,135	2,756	6,891
Task 8: Provide funds to selected organizations to develop and complete 20 water quality and NPS Pollution festivals (Make A Splash with Project WET) involving 18,000 third, fourth and fifth graders.	14,700	9,800	24,500
Task 9: Provide and complete varying level NPS Pollution and water quality education programs for 14,000 K-12 youth and adults at camps/school programs, other youth water education events and public water education events.	7,350	4,900	12,250

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
Task 10: Develop and implement one Discover Today's Watershed Institutes for 30 K-12 formal and nonformal educators (three or four graduate credits each).	10,044	4,900	12,250
Task 11: Develop and implement four statewide NPS Pollution/water quality education poster contests involving 5,000 grade 6 youth with theme of "Help Prevent Runoff Pollution."	2,380	1,225	3,062
OBJECTIVE 4: MAINTAIN FACILITATOR NETWORK AND PROMOTIONAL SUPPORT SYSTEM OF 25-30 PROJECT WET FACILITATORS.	\$12,250	\$8,167	\$20,417
Task 12: Maintain facilitator network of 25-30 educators and facilitator recognition and incentive programs.	6,248	4,165	10,413
a. Facilitator recognition and incentive programs.	3,124	2,083	5,207
b. Attend Project WET promotional meetings/conferences.	3,124	2,082	5,206
Task 13: Complete two statewide facilitator leadership training for an additional 20 K-12 formal and nonformal educators.	6,003	4,002	10,005

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
OBJECTIVE 5: PROVIDE A METHOD FOR ONGOING MONITORING, EVALUATION, OVERSIGHT AND DIRECTION THROUGH FOUR PROJECT WET ADVISORY/ COMMITTEE MEETINGS.	\$1,750	\$1,167	\$2,917
Task 14: Conduct four meetings of Project WET Advisory Committee (see Appendix for current Advisory Committee members).	998	665	1,663
Task 15: Complete various methods to track and measure (evaluate) Project objectives, task outputs, benefits and accomplishments (see Section 5.1 for specific methods and Appendix for examples).	752	502	1,254
OBJECTIVE 6: DEVELOP AND IMPLEMENT THE USE OF TECHNOLOGY TO PROMOTE WEB BASED RESOURCES, MATERIALS AND PROGRAMS FOR K-12 EDUCATORS, YOUTH AND ADULTS.	\$5,250	\$3,500	\$8,750
Task 16: Develop and maintain a web page for ND Project Wet water quality/NPA pollution/ solutions that will improve and increase delivery of resources and materials to K-12 educators, youth and adults	2,100	1,400	3,500
Task 17: Purchase and maintain technology and equipment to support dissemination of STEM based learning.	3,150	2,100	5,250

PROJECT OBJECTIVES AND TASKS	FEDERAL 319 FUNDS 15-17	MATCHING FUNDS 15-17	TOTAL FUNDS 15-17
TOTAL FUNDING	\$175,000	\$116,666	\$291,666

APPENDIX

PROJECT DESCRIPTION COMPONENTS

Educational Resources and Materials (Overall 80% Directly related to NPS Pollution, Sustainable Solutions and Water Quality Issues through Educator Curriculum and Activity Guides, KIDS Youth Activity Booklets, Educational Trunks and Water Quality Monitoring Equipment).

The centerpiece of the Project WET curriculum program is the Project WET K-12 Curriculum and Activity Guide which includes over 90 hands-on, active and innovative water and watershed activities that incorporate a variety of formats, such as large and small group learning, whole body activities, laboratory investigations, local and global topics, and involvement in community service projects. For more in-depth investigation of specific topics, North Dakota Project WET provides resource/curriculum guides that supplement the Project WET guide. Some guides include an extensive resource and reference section and all include hands-on activities. The format of the activities within each guide is modeled after the Project WET Guide. Current guides available are Discover A Watershed- Missouri River guide (thirty-six science-based, multidisciplinary, and hands-on activities including an extensive background section pertaining to the Missouri River watershed for grades 6-12); WOW! The Wonders of Wetlands guide (forty cross referenced and hands-on multi-disciplinary activities and an extensive background section pertaining to wetlands for grades K-12); the Conserve Water Guide (fifteen hands-on, science – based and multi-disciplinary activities and ten real life case studies for grades 6-12); Healthy Water/Healthy People Water Quality Guide and Test Kit Manual (25 hands-on, multi-disciplinary and science-based activities quality test kits for 6-12); and a Watershed Managers Guide (fifteen hands-on science-based and multi-disciplinary activities which deliberate real world watershed management challenges for grades 6-12. Project WET also offers a comprehensive guide on how to develop and complete youth water festivals/celebrations, storybooks on the Rainstick and on Spring Water, and fun-filled Kids in Discovery (KIDS) activity booklets for youth on water conservation, water resources, stormwater, watershed protection, wetlands, water-every drop counts, oceans, big rivers, Red River of the North, groundwater and springs, Missouri River, water use, water quality, Lewis and Clark, fishing, Native waters and many others. The KIDS activity booklets are each colorful, 16 pages and include hands-on investigations, demonstrations, science experiments, science education and games and stories for grades 3-7.

In addition to the Project WET K-12 Curriculum and Activity Guide, the special topic-focused “water curriculum and activity guides” and youth activity booklets, North Dakota Project WET offers educators and youth water resource trunk programs (water pollution, water history), and water resource reference materials. Project WET offers supplemental water resource education posters, North Dakota water resource and specialized watershed maps, and supportive publications. Topics covered through Project WET include atmospheric, surface and groundwater, water quality and quantity, watershed and water management, and water use, protection and conservation. A supplemental North Dakota activity guide, the K-12 Wetland Discovery Guide, a North Dakota Water Resource and Reference Folder, a comprehensive guide on how to develop and complete a youth water festival/celebration, a Project WET Facilitator

Handbook, a series of environmental education trading cards and a wide array of observational, chemical, physical and biological water quality investigation materials are also offered through Project WET. Correlated to Objective 2, Task 5.

Education Programs for K-12 Formal and Nonformal Educators (Overall 80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues through Educator Training at Various Lengths and Intensity of Programming).

Project WET programs are designed to help youth learn how to think, not just what to think. The program provide a means for teachers and youth to grasp fundamental concepts related to water resources, water quality, watersheds, NPS pollution and the environment. Through Project WET programs, teachers and youth obtain skills for acquiring knowledge, test and apply that knowledge, and evaluate the results of their actions.

Project WET programs are disseminated to K-12 formal and non-formal educators through a variety of types of educational options. These options vary from one – two hour inservice sessions to single credit workshops to five-day three graduate credit intensive summer institutes. The predominance of graduate credit offerings is partly a product of the history of continuing education policies by the state universities and colleges, local school boards and school administration, the State Department of Public Instruction, the Educational Standards and Practices Board and the needs of educators.

The major Project WET educational program options for K-12 formal and nonformal educators are:

Inservice: (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): One – two hour inservices are preferred although special three-four hour topic or thematic workshops or programs can be completed. No university credit is available. Depending upon the school CEU's (Continuing Education Unit) and inservice credit may be available. Intended to introduce practicing educators to the Project WET curriculum/activity guides, KIDS water quality/NPS pollution activity booklets and water quality testing materials. Correlated to Objective 3 Task 7.

University Preservice (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Length and program variable and usually negotiated with university or college. Should be six hours in length to provide Project WET K-12 Curriculum Guide, KIDS (Kids in Discovery Series booklets) and North Dakota Activity Guides (water resource posters, brochures, flyers can be made available). Credit is inherent through university or college as a required or extra program option for preservice teachers. Intended to provide preservice educators with a basic understanding of Project WET curriculum/activity guides, KIDS water quality/NPS pollution activity booklets and water quality testing materials. Correlated to Objective 3, Task 7.

Six Hour Noncredit Workshop (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Generally the minimum length workshop for participants to receive

national Project WET and North Dakota curriculum and activity guides, posters and other water quality/NPS education materials. No university credit is available. Depending upon school administration, recertification inservice credit may be available to formal educators. Intended to provide practicing educators with basic understanding of Project WET curriculum/activity guides, KIDS water quality/NPS pollution activity booklets and water quality testing materials. Correlated to Objective 3, Task 7.

Fifteen-Hour Credit Workshop (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): One semester graduate credit available through Minot State University, UND or NDSU. Participants receive appropriate national Project WET and North Dakota curriculum and activity guides, reference and resource materials, posters, water resource maps and other education materials. Nine different credit workshop options are available: Project WET/Watershed Management; Project WET/Missouri River; Project WET/Water Celebration; Project WET/Water Quality (Healthy Water, Healthy People); Project WET/Wetlands; Project WET; Project WET/Lewis and Clark; Project WET/Conserve Water Workshop; and Project WET/Red River Workshop. Many variations of the above options are also available based upon request of educators. Intended to provide practicing educators with a more in-depth understanding of North Dakota water quality/NPS pollution issues and solutions through Project WET curriculum/activity guides, KIDS youth activity booklets and water quality testing materials. Correlated to Objective 3, Task 7.

Summer Watershed Institutes (45 or 60 Hour Three or Four Credit Institute) (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Project WET offers five-day and six-day intensive summer institutes for educators and youth leaders (July of each summer). The Discover Today's Devils Lake, Northwestern ND Missouri River, and Mouse River Institutes offer three graduate credits while the Discover Today's Missouri River, James and Sheyenne Rivers, Southwestern ND Missouri River Watershed and the Red River Institutes offer four graduates credits all through Minot State University, UND and NDSU. Educators and youth leaders receive appropriate national Project WET and North Dakota curriculum and activity guides, reference and resource materials, posters and other educational materials as indicated on the Project WET annual credit options flyer. Intensive water quality/NPS pollution, sustainable solutions presentations, tour investigations, hands-on activities and model demonstrations are included with these institutes.

Intended to provide an in-depth understanding and knowledge of watershed dynamics and management in relationship to water quality and NPS pollution, sustainable solutions and how water is used and treated in a watershed. Correlated to Objective 3, Task 10.

Educational Programs for K-12 Youth and Adults (Overall 80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues):

Project WET NPS pollution/water quality programs are disseminated directly to K-12 youth through a variety of educational options. The three primary types of options are: water festivals/celebrations; youth camps/events and youth service or action projects. Project WET sponsorship or facilitation of K-12 youth NPS pollution, sustainable solutions and water quality

Issues in the past ten years has seen a very high growth. Thousands of youth every year hear the water quality/NPS pollution education message through these programs.

Water Festivals/Celebrations (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Water festivals/celebrations can be part day to four-day events to educate youth (could include adults in the form of a Family Exploration Night) about the importance of keeping our water clean, protecting our water against NPS pollution and other water quality issues and problems in their lives. The particular length, type of program and grade levels of youth targeted to attend is tailored to meet the needs of the local sponsoring schools and organizations (Usually fourth or fifth grade youth, but can be any combination of grade school youth). Water festivals/celebrations can be held indoors and/or outdoors depending upon the timing and setting of the planned event. They can involve less than one hundred to nearly two thousand youth. Most events include hands-on Project WET and other classroom ready NPS pollution and other water-related activities, demonstrations and exhibits. Large events can also include contests, games, a teacher resource area and NPS pollution related entertainment. Large or small, the purpose of a water festival or celebration is to expose youth to a wide variety of NPS pollution and water quality and watershed pollution issues. Generally targeted to elementary to middle school youth, these NPS/pollution water quality education events can involve a single school, community-wide schools and/or area wide or regional schools. The amount of planning and organizational time as well as financial commitment needed to complete a water festival or celebration depends upon the goals of the sponsoring school(s) or organizations(s) and can vary from low to high cost. Project WET is collaborating with an increasing number of potential sponsors to complete this type of NPS pollution water education program. North Dakota Project WET has produced “Make a Splash with Your Own Water Festival” water festival guide for any school or organization that would like to develop and complete a NPS pollution water quality festival.

ND Project WET contracts with local sponsoring organizations to provide some of the funding to offset costs associated with contacting school administrators and educators within school systems, recruiting presenters, volunteers and exhibitors, developing schedules and appropriate NPS pollution/water quality hands-on activities and promoting the water festival. The Make a Splash with Project WET and other non-funded water festivals is a critical component of the Project WET NPS Pollution grant. As such, Project WET is interested in working with a local sponsoring organization to expand this program to Mandan, N.D. The intent of the festivals are to educate North Dakota youth on NPS pollution, sustainable solutions, watersheds and other water quality issues. Correlated to Objective 3, Task 8.

Youth Camps/Youth Events (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Project WET participates in youth camps and youth events that promote their education in NPS pollution, sustainable solutions and water quality issues. Project WET involvement can be indoor/outdoor part-day to multi-day programs to inform and educate youth about the importance of water quality. Programs are generally tailored to meet the needs of the sponsoring youth organization in terms of length, intensity and diversity of topics covered. These organizations can include boy and girl scouts, church sponsored youth programs, 4-H youth programs, science centers, museums, environmental learning centers, zoos, soil

conservation district Eco-Ed programs, state park youth programs, community public sponsored youth programs and any type of youth gathering or function. As with water festivals/celebrations, youth camp or youth event programs include Project WET and other hands-on classroom ready activities, exhibit areas demonstrations, contests and games focused on NPS pollution, sustainable solutions and water quality issues. Youth are exposed to selected activities that best meet the needs of the age group and organization.

Youth programs are generally attended by specific targeted youth through sponsoring organization enrollment and/or invitation. Youth camp/event NPS pollution, sustainable solutions and water quality issues education programs vary in length of time and content depending upon sponsoring organization goals and participating presenters. Correlated to Objective 3, Task 9.

Family Community Centered Programs (80% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Project WET participates in family and community centered events. These events can be sponsored by governmental agencies, environmental organizations, science centers, zoos, schools and school PTOs, community public organizations, state parks, natural resource organizations, water resource management/delivery agencies and organizations, youth organizations, community clubs, university college events, and any other group interested in promoting NPS pollution, sustainable solutions and water quality issues education. Often family and community programs are developed with youth water festivals, community art/craft shows, youth and community exhibitions, community recognition events, local historical events, youth camps, local, county and/or state fairs and many other events. Or they can be developed as a stand alone program to educate the general public about NPS pollution, sustainable solutions and water quality issues. Correlated to Objective 3, Task 9.

Water Actions – Community Service Learning Projects (90% Directly Related to NPS Pollution, Sustainable Solutions and Water Quality Issues): Project WET works with K-12 educators and youth to develop and complete NPS pollution, sustainable solutions and water quality related community action/service learning projects. These projects get teachers and youth involved in tackling problems or issues, or that aim at improving an environmental setting. They are often most successful when they are focused on the local community. An action project can be simple or complex and can fit into a variety of educational settings. Many educators find that action education blends well with their regular teaching duties, while other educators choose to make it the basis for after-school sessions.

Action learning is also effective in nonformal settings. Nature centers, community water-related infrastructure and industry, zoos, scouting and 4-H programs, bible camps, community parks, public schools and science centers all have strong potential for action projects. Community action and service learning projects related to water can include water quality issues education, best management practices education, water festivals, family/community centered education programs, community group presentations, trail work, litter patrols, developing a school environmental club, designating and protecting environmentally sensitive areas, implementing water conservation practices, riparian restoration projects, cleaning up a river, storm drain stenciling projects, fund-raising for cleaning up a water resource, influencing laws and regulations that affect NPS pollution and water quality issues, monitoring lakes, rivers, streams

and watersheds, replanting vegetation along waterways, cultural/historical designation of waterways, designing and developing a school nature site, assessing the total health of a watershed and its waterways and many others. Projects can take place at home, in school, in the community, on the farm or anywhere in a local watershed. Correlated to Objective 3, Task 9.

Project WET Programs for Early Childhood Educators:

Early Education Workshops (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Six hour workshop to train early childhood educators to provide water based learning experiences for youth, ages 2-5. These experiences will promote creativity, wonder and curiosity to help foster a life-long understanding and appreciation for water resources (This program is in development stage and will be integrated into North Dakota Project WET program in 2014).

Project WET Programs for all North Dakota Citizens:

Family and Community Centered Program (80% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Project WET participates in many family and community centered events. Often, family and community programs are developed with youth water festivals, community art/craft shows, youth and community exhibitions, community recognition events, local historical events, youth camps, local, county and/or state fairs and many other events. They can also be developed as a stand alone program to educate the general public about water resource issues.

Water Action/Community Service Learning Projects (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Community action/service learning projects get teachers and students involved in tackling water-related problems or issues, or that aim at improving an environmental setting. Projects can take place at home, in the school, in the community and on the farm (anywhere in a local watershed).

Interactive Web-page (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Interactive web-page allowing public access to water related internet resources that promote education, understanding and participation in reducing NPS pollution impact and promoting healthy water quality practices.

Interactive Web-page (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): **North Dakota Project WET will maintain** Interactive web page allowing public access to water related internet resources, publications, and interactive programs that promote education, understanding and participation in reducing NPS pollution impact and promoting healthy water quality practices.

Promoting action learning will become more accessible with technology and the development of interactive internet resources now that Project WET USA provides a water education portal that is a dynamic internet based and interactive platform for educators and facilitators to participate in discussion groups and collaboration on water related issues such as water quality, water education and non point source pollution. Within the portal is a searchable index for activities by grade level, topic and subject. Within the activities on the educators can download and upload content and find ideas for community based action projects that moves the learner from

awareness to empowerment. Allowing students, educators, natural resource agencies and communities to find ways to solve local water issues with sustainable solutions.

Project WET USA has also launched DiscoverWater.org. DiscoverWater.org provides free interactive lessons and activities online to the public. DiscoverWater.org combines student friendly illustration and animation with interactive, science based lessons about the important roles that clean water plays in our lives. This resource is free to all who want to understand water as a resource through a variety of interactive lessons that cover topics such as nonpoint water pollution, water quality, water cycle and more. The web experience is another tool that bring water lessons to life in a way that makes learning fun and encourages today's youth to take action and become tomorrow's responsible stewards of North Dakota's water resources.

Project WET Programs for Early Childhood Educators:

Early Education Workshops (90% Directly Related to NPS Pollution/Solutions and Water Quality Education; 100% Directly Related to Water Education): Six hour workshop to train early childhood educators to provide water based learning experiences for youth, ages 2-5. These experiences will promote creativity, wonder and curiosity to help foster a life-long understanding and appreciation for water resources (This program is in development stage and will be integrated into North Dakota Project WET program in 2014).

PROJECT EVALUATION AND MONITORING PLAN ROLES AND RESPONSIBILITIES

- 1) **Project WET Advisory Committee:** The Project WET Advisory Committee has a very important role in ongoing monitoring and evaluation of Project WET water quality/NPS pollution education activities. The Project WET director completes an annual progress report on all activities scheduled to be started, developed and/or completed during that particular one year time period for review by the Advisory Committee. This report is also utilized as the annual progress report required by the 319 NPS pollution grant. All Advisory Committee members are Project WET facilitators and are actively involved in ongoing monitoring and evaluation through personal participation in Project WET activities. Monitoring and evaluation through the Advisory Committee is completed through e-mail, mail, the telephone and the annual meeting.

Project WET water quality/NPS pollution activities described in this plan are reviewed by the Advisory Committee. The Advisory Committee can recommend changes in plan activities as a result of their review.

The primary objectives of the Advisory Committee are to:

- Assist in determination of program and resource needs and the monitoring and evaluation of Project WET and its overall programs, activities and accomplishments;
- Provide consultation and technical assistance in the implementation, maintenance, direction and future of Project WET;

- Assist in coordinating and networking Project WET with the educational and water communities at all levels and with other water related and environmental education providers and programs; and
- Assist in stimulating school, teacher and youth, natural and water resource and public leader interest in Project WET.

- 2) **ND Department of Health (NDDH)/Non-Point Source Task Force (NPSTF):** The NDDH has a mandated role in the monitoring and evaluation of all Project WET water quality/NPS pollution goals, objectives and tasks. As the lead agency responsible for the pass through of funds from the EPA to the NDSWC, the NDDH is responsible to assure that all EPA requirements are met by the NDSWC as a recipient of Section 319 NPS pollution funds. Some of these requirements include: 1) daily/monthly tracking of time and work duties allocated to the project; 2) completion and submittal of all semi-annual and annual project progress reports; 3) completion and submittal of quarterly Requests for Reimbursement for Section 319 federal funds; 4) signatory to and approval of annual contract for project between the NDDH and the NDSWC; and 5) completion and submittal of any changes in project objectives and tasks along with monitoring overall project accomplishment. The NDDH must also provide the NPSTF with reports on the progress of Project WET in meeting its stated project goals, objectives and tasks and must develop rules and guidelines for NPSTF review of Project WET and other 319 NPS Pollution Project Implementation Plans.
- 3) **Teachers and Youth:** All Project WET graduate credit educational offerings provide teachers an opportunity to evaluate (on-site) educational offerings in which they participate in. A formal evaluation questionnaire is provided to each participant that includes an evaluation of the reasons for attending, the most effective course components, an evaluation of the instructor(s)/facilitator(s), suggestions for improvements and course relevance to local and statewide educational standards. Separate evaluations are developed for the Project WET summer institutes. Teachers also evaluate their satisfaction with Make A Splash water festivals and their effectiveness in increasing youth learning on water quality/NPS pollution water issues provided through the festivals. Youth participating in these festivals and other jointly sponsored educational offerings are also given an opportunity to evaluate their own learning attained and the program itself.
- 4) **Water Related Agencies, Organizations and Associations:** Project WET provides an annual listing of its educational offerings and collaborative meetings to all water resource districts with an invitation to provide comments on this listing. All water resource districts and soil conservation districts also receive brochures and flyers on the Project WET program and credit educational offerings. Opportunity is provided for these organizations to make comments on the direction and effectiveness of Project WET.

- 5) **Schools and Institutions:** School districts that sponsor/host a Project WET educator credit or youth program are given an opportunity to informally evaluate/comment on the program and its effectiveness/contribution to teacher and student learning.

Minot State University, UND and NDSU all have developed their own evaluation forms to provide their respective institutions with a formal method to look at all Project WET educator credit offerings and their effectiveness in meeting educator learning standards. These and other institutions have invited Project WET to be a part of their preservice educational methods classes. This gives their students an opportunity to evaluate student learning and the effectiveness of the Project WET program taken.

- 6) **Project WET Facilitators:** All Project WET facilitators are involved in ongoing monitoring and evaluation as part of their participation in and utilization of Project WET educational offerings and materials. There are ongoing discussions through e-mail, mail and telephone correspondence regarding the progress of Project WET in meeting the objectives and tasks described in the PIP. Nearly all members of the Project WET Advisory/Executive Committees are also Project WET Facilitators. This provides an opportunity for these facilitators to have a major impact on overall Project WET effectiveness. Several facilitators participate in the annual training and evaluation meeting.
- 7) **Project WET Director:** The Project WET director is responsible for ongoing monitoring of the Project Implementation Plan (PIP) and for directing the overall monitoring and evaluation components described above. The director also completes semi-annual and annual progress reports as a requirement for the Nonpoint Source Pollution Task Force. The Project WET director monitors the 319 NPS pollution grant monthly and quarterly expenditures. The Project WET director also submits an annual progress report to Project WET USA as its contribution for an overall national Project WET USA progress report.
- 8) **ND State Water Commission:** Ongoing meetings are held between the NDSWC Planning and Education Division director and the Project WET director regarding the current status of Project WET, the NPS pollution grant and what program changes, deletions and/or additions should or could take place. The Project WET director completes a report each month to the Planning and Education Division director on accomplishments of Project WET toward meeting the 319 NPS pollution grant objectives, tasks and projects that will be accomplished in the following month. The Project WET director completes a brief annual report to the NDSWC on Project WET program accomplishments and overall numbers of educators, youth and adults who receive its services. The Planning and Education Division director meets weekly with the State Engineer and other NDSWC department heads to discuss division (including Project WET) status and accomplishments. The State Engineer, as chief administrator for the NDSWC, signs all contracts between the NDSWC (Project WET) and the NDDH regarding the 319 NPS pollution grant as well as quarterly

Requests for Reimbursement. The State Engineer also determines the general fund match to the 319 NPS pollution grant.

- 9) **State Legislature:** Project WET uses a general fund allocation, determined on a biennial basis, as part of the matching funds to the 319 NPS grant. Every biennium, the NDSWC prepares a budget request to the Governor's Office and to the ND State Legislature. The Project WET general fund is a part of this request. The state legislature process includes a review of the Project WET general fund request and the effectiveness of its programs.

HISTORY OF NORTH DAKOTA PROJECT WET

The following briefly outlines the development of Project WET in North Dakota. Only the first event of a particular program is stated. Most programs, thereafter, have been incorporated as ongoing events unless otherwise stated as a last event.

- Developed in 1984 by the ND State Water Commission as a result of 1983 state water planning process.
- Initial programs provided through Project WET workshops at 4-H camp near Washburn and several local/state offerings (1984 – 1985).
- Initial ND educational curriculum development (1986 – 1987).
- Project WET credit workshops expand using ND curriculum materials and water resource information (1986 – 1987).
- Major expansion of Project WET workshops, usually taken for university graduate credit (1987).
- Development of supplemental educational material (groundwater flow model, liquid treasure trunk (1987 – 1989).
 - Project WET credit workshops continue to mature and expand. ND curriculum materials continue to expand (1989 – 1992).
- North Dakota Project WET collaborates in development of Project WET USA (1992).
- North Dakota Project WET receives funding through Section 319 EPA non-point source pollution grant for development and implementation of comprehensive NPS pollution and water quality education program; credit workshops continue (1993).
- Project WET finalizes major traveling trunk program in groundwater; develops additional ND curriculum materials; expands efforts to coordinate with other water/natural resource agencies; develops Project WET facilitator network; continued credit workshops and summer institutes (1993 – 1994).
- Initial and expanding coordination with ND Water Education Foundation; first Summer Water Quality Institute for Teachers; Project WET Advisory Committee is established; first Project WET facilitator leadership training workshop; first watershed water pollution trunk programs (1994).
- Expansion of relationship with Project WET USA including using new supplemental products and materials; Project WET USA K-12 Curriculum and Activity Guide produced; WOW: Wonders of Wetlands Educator's Guide produced; continued credit workshops; first Summer Water Quality Program for Students; expansion of traveling trunk educational materials; expanded facilitator leadership training workshop; expansion of EPA Section 319 nonpoint source pollution grant; ND Wetlands K-12 Discovery Guide produced; first Project WET USA Coordinator's Conference (1995).
- First and last credit Summer Water Quality Program for Students; first water festival in Grand Forks; first regular credit and non credit workshops with the new Project WET K-12 Curriculum and Activity guide; expansion of Project WET promotional items; first Project WET involvement in Coalition for Conservation and Environmental Education; second major EPA Section 319 non-point source pollution grant; major name change for Project WET to include Explore Your Watershed; first Project WET Facilitator of the Year awards; first EETAP grant funds; first Project WET USA KIDS (Kids in Discovery Series – Water Story) (1996).

- Continued expansion of Project WET USA supplemental water education materials; first Project WET water festivals/celebrations across state; first community involvement Project WET programs; first Project WET involvement in Eco-Ed and other youth camps and youth learning situations (scouts, 4-H, bible); first Project WET/WOW! Wonders of Wetlands graduate credit workshop and non-credit youth programs; first Explore Your Watershed promotional materials and program delivery; first use of ND water resource map; third major EPA Section 319 non-point source pollution grant (1997).
- Continued expansion of Project WET USA supplemental water education materials; first water celebration graduate credit workshops; continued expansion of direct services to youth water education programs; first implementation of Project WET facilitator system of awards and benefits program; fourth major EPA Section 319 non-point source pollution grant (1998).
- Continued expansion of Project WET USA supplemental water education materials; first Lewis and Clark Big Muddy Missouri River Cultural History Institute; first major water festival in Fargo-Moorhead area; first Project WET involvement in ND Envirothon; first Project WET involvement in Keep North Dakota Clean poster contest (water theme) (1999).
- Continued expansion of Project WET USA educational materials and resources; WOW! Wonders of Wetlands, Conserve Water and Lewis and Clark one credit workshop format developed; Project WET Guide Correlation Document to ND Content Standards developed and published; first ND Envirothon completed; first Make a Splash with Project WET water festival held in Dickinson; Project WET USA Conserve Water Guide produced; fifth major EPA Section 319 non-point source pollution grant (2000).
- Continued expansion of Project WET USA KIDS (Kids in Discovery Series – nine total); first Lewis and Clark one credit workshop; first Lewis and Clark festival; first Make a Splash with Project WET multiple water festivals in Dickinson, Fargo and Grand Forks, first four credit Lewis and Clark Institute (2001).
- First three completed Make A Splash with Project WET water festivals; last Summer Water Quality Institute; Project WET USA Healthy Water, Healthy People Guide and Field Monitoring Guide manual produced; development of Discover the Missouri River Watershed Institute, last Lewis and Clark Institute; continued expansion of Project WET USA KIDS (11 total); continued expansion of variety of credit one topic workshops to include Healthy Water, Healthy People and Red River; Project WET USA Watershed Manager Guide produced; sixth major EPA Section 319 non-point source pollution grant (2002).
- First four credit Discover Today's Missouri River Watershed Institute; continued expansion of KIDS activity booklets (13 total); major expansion in community Project WET programs (2003).
- Project WET USA Missouri River Watershed Guide produced; seventh major EPA Section 319 non-point source pollution grant; first Discover Today's Devils Lake Institute; first Bismarck Make A Splash water festival (2004).
- First Northwestern Missouri River Watershed Institute; continued expansion of Project WET one credit workshops to include Watershed Manager and Missouri River; continued expansion of KIDS activity booklets (15 total) (2005).

- First James and Sheyenne Rivers Watershed Institute; eighth major EPA Section 319 non-point source pollution grant; North Dakota Project WET publication on water festivals (2006).
- First Mouse River Watershed Institute (2007).
- First Southwestern ND Missouri River Watershed Institute; seventh Project WET Facilitator Leadership Training Workshop; publication of Project WET Facilitator Handbook; first Mandan Make A Splash water festival; ninth major EPA Section 319 non-point source pollution grant; first Project WET/Service Learning credit Workshop; second Project WET Guide Correlation Document produced (2008).

SUMMARIZATION OF GENERAL ACCOMPLISHMENTS (July 1, 2009 – September 30, 2014)

Project WET was involved in the following meetings, educational events, conferences workshops and institutes to help promote, advertise and disseminate information on its programs, actually deliver its educational materials to teachers and students, to deliver educational curriculum or to enhance teacher use of existing curriculum. This includes set-up, helping set-up and/or attending curriculum development or enhancement projects, information and education or promotional meetings and conferences during this time period.

July 17, 2009	Fun with Water Youth Education Program, Western 4-H Camp, near Washburn, 35 1 and 2 grade youth
July 12-17, 2009	ND Red River Watershed Institute, NDSU, Fargo, 28 K-12 Educators
July 20-24, 2009	Yunker Farm Water Festival, Fargo, 335 K-6 youth
August 4, 2009	Forestry Institute for Teachers, Southeastern ND, 45 K-12 Educators
August 6, 2009	ND Wildlife Federation Youth camp, Triangle Y Camp, 60 Grade 6-9 youth
August 17, 2009	Earth Day Festival Planning Meeting, Bismarck
August 20, 2009	Liquid Treasure Trunk Meeting, SHSND, Bismarck
August 24, 2009	Envirothon Aquatics Team Field Day, Cooperstown Bible Camp
September 2, 2009	Envirothon Aquatics Team Field Day, Cooperstown Bible Camp
September 15-18, 2009	Red River Water Festival, Hjemkomst Center, Moorhead, MN, 1,546 Grade 3 and 4 Youth
September 17-18, 2009	Dickinson Water Festival, Recreation Center, Dickinson, 500 Grade 5 Youth
September 17, 2009	Dickinson Family Water Fun and Education Program, 415 Adults and Youth
September 26, 2009	Project WET Program, Gateway to Science, 75 Adults and Youth
September 28, 2009	Southwest ND Regional Health and Physical Educators Conference, 2 sessions, Dickinson, 21 K-12 Educators
September 28, 2009	Earth Day Festival Planning Committee, Bismarck
September 29, 2009	Adams County Eco-Ed Water Quality Program, Hettinger, 46 Grade 5-6 Youth
October 7, 2009	Standing Rock Community Schools Water Festival Meeting, Ft. Yates
October 21-23, 2009	North Dakota Education Association Conference, Grand Forks; 5 Sessions and Booth, 67 K-12 Educators
October 27, 2009	Bismarck Earth Day Festival Meeting, Bismarck
November 16, 2009	ND Water Education Foundation Meeting, Bismarck
November 20, 2009	C ² E ² Meeting, Bismarck
December 3, 2009	Bismarck Earth Day Festival Meeting, Bismarck

December 9-10, 2009	ND State Water Convention, Bismarck
January 14, 2010	Bismarck Earth Day Festival Meeting, Bismarck
February 25, 2010	Bismarck Earth Day Festival Meeting, Bismarck
February 26-27, 2010	ND Science Teachers Conference, Bismarck, 4 Sessions, 44 K-12 Educators
March 2, 2010	ND Envirothon Conference Call
March 17, 2010	Gateway to Science Environmental Festival, Bismarck, 1047 Grade 5 Youth
March 25, 2010	Keep ND Clean Meeting, Bismarck
April 6, 2010	ND Envirothon Meeting, Crystal Springs
April 10, 2010	Native Waters booth, Woodlands and High Plains Pow Wow, Moorhead, MN
April 12, 2010	C ² E ² Meeting, Bismarck
April 22, 2010	Bismarck Earth Day Festival, Bismarck, 600 Grade Six Youth, 1,050 Adults and Youth
April 23, 2010	Keep ND Clean Awards Program, Washburn, 28 Grades 1-8 Youth, 145 Adults and Youth
April 27, 2010	Mandan Water Festival, Mandan, 246 Grade 5 Youth
May 3-4, 2010	Grand Forks Water Festival, Grand Forks, 782 Grade 4 Youth
May 6, 2010	Wahpeton Water Festival, Wahpeton, 226 Grades 3-6 Youth
May 6-8, 2010	ND Envirothon State Competition, Crystal Springs Camp, 105 Grades 9-12 Youth, 85 Adults
May 17-18, 2010	Bismarck Water Festival, Bismarck, 768 Grade 3 Youth
June 1-3, 2010	Water in Motion Service Learning Credit Workshop, Fargo, 23 K-12 Educators
June 4-6, 2010	Women on the Red River Credit Workshop, Fargo, 13 K-12 Educators
June 11, 2010	Lindenwood Water Festival, Fargo, 75 Grade K-5 Youth
June 17, 2010	Bismarck Earth Day Festival Meeting, Bismarck
July 18-23, 2010	ND Central Missouri River Watershed Institute, Bismarck State College, Bismarck, 24 K-12 Educators
July 26-30, 2010	Yunker Farm Water Festival, Fargo, 248 K-6 Youth
August 17, 2010	Bismarck Earth Day Festival Meeting, Bismarck
September 7, 2010	Fargo/West Fargo Educator Open House, Project WET Booth, Fargo
September 16-17, 2010	Dickinson Make a Splash Water Festival, Dickinson, 329 Grade 5 Youth
September 16, 2010	Dickinson Water Festival Family Night, Dickinson, approximately 540 Adults and Youth
September 21-24, 2010	Red River Make a Splash Water Festival, Moorhead, MN, 1,700 Grade 3 and 4 Youth
October 11, 2010	4 -H ₂ O Youth Program, Devils Lake, 12 Grade 2-10 Youth

October 14, 19 and 28, 2010	Project WET Credit Workshop, 10 K-12 Educators, Fargo
October 15, 2010	C ² E ² Meeting, Long Lake NWR
October 19, 2010	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
October 20-23, 2010	North Dakota Education Association Conference, Bismarck, 5 Sessions, 52 K-12 Educators
October 28, 2010	Keep ND Clean Meeting, Bismarck
November 9, 2010	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
December 8-9, 2010	ND State Water Convention, Bismarck
December 21, 2010	Bismarck Earth Day Festival Program Committee Meeting, Bismarck
January 9, 2011	Project WET 4-H Youth Program, Fargo, 23 Age 6-12 Youth
January 18, 2011	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
January 26, 2011	Project WET Pre-service Natural Resource Student Program, 35 Pre-service Students, Fargo
February 12-13, 2011	Project WET Facilitator Training Credit Workshop, Bismarck, 12 K-12 Formal and Non-formal Educators
February 22, 2011	Bismarck Earth Day Festival Planning Committee Meeting
February 24, 2011	Project WET Program, Riverside Elementary School, Bismarck, 20 Grade 4 Youth
February 25 – 26, 2011	ND Science Teachers Conference, Bismarck, Booth and Six Presentations, 68 K-12 Educators
March 5, 2011	Native Waters Booth, Woodlands and High Plains Pow Wow, Moorhead, MN
March 8-9, 2011	Dakota College Preservice Project WET Workshop, 5 Pre-service Educators
March 16, 2011	Gateway to Science Environmental Festival, 1,050 Grade 5 Youth, Bismarck
March 22, 2011	Keep ND Clean Board Meeting, Bismarck
March 26, 2011	Project WET 4-H Youth Program, 19 Grades 2-6 Youth, Bismarck
March 27, 2011	Keep ND Clean Board Meeting, Bismarck
March 29, 2011	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
April 8, 2011	Keep ND Clean Awards Preparation Meeting, Bismarck
April 9, 2011	NDEA Representative Assembly Meeting, Bismarck
April 14, 2011	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
April 16, 2011	Project WET Program and Booth, Dakota Science Center Super Science Saturday, Grand Forks

April 18, 2011	Keep ND Clean Awards Program, Washburn, 30 Grades 1-2 Youth, 160 Adults and Youth
April 19, 2011	Morton County Make a Splash Water Festival, Mandan, 261 Grade 5 Youth
April 21, 2011	Bismarck Earth Day Festival, 600 Grade Six Youth; 750 Adults and Youth
April 21, 2011	Prairie Waters Education and Research Center Project WET Program, Kathryn, 90 Jamestown Grade Seven Youth
April 28, 2011	Prairie Waters Education and Research Center, Project WET Program, Kathryn, 80 Valley City Grade 3 Youth and 106 Grade 6 Youth
May 2-3, 2011	Grand Forks Children's Water Festival, East Grand Forks, 551 Fourth Grade Youth
May 6, 7 and 14, 2011	Project WET Two Graduate Credit Workshop, Fargo, 27 K-12 Educators
May 11, 2011	Wahpeton Red River Water Festival, Wahpeton, 315 Grades 3-6 Students
May 12-14, 2011	ND Envirothon State Competition, Crystal Springs Baptist Camp, 100 Grades 9-12 Youth; 90 Adults
May 17-18, 2011	Bismarck Make a Splash Water Festival, 805 Grade 3 Youth
June 29, 2011	Bismarck Earth Day Festival Planning Committee Wrap-up Meeting, Bismarck
July 18-23, 2011	Devils Lake Watershed Institute, Lake Region College, Devils Lake, 27 K-12 Educators
July 26-30, 2011	Yunker Farm Water Festival, Fargo, 248 K-6 Youth
August 17, 2011	Bismarck Earth Day Festival Meeting, Bismarck
September 7, 2011	Fargo/West Fargo Educator Open House, Project WET Booth, Fargo
September 16-17, 2011	Dickinson Make a Splash Water Festival, Dickinson, 329 Grade 5 Youth
September 16, 2011	Dickinson Water Festival Family Night, Dickinson, approximately 540 Adults and Youth
September 21-24, 2011	Red River Make a Splash Water Festival, Moorhead, MN, 1,700 Grade 3 and 4 Youth
October 11, 2011	4 -H ₂ O Youth Program, Devils Lake, 12 Grade 2-10 Youth
October 14, 19 and 28, 2011	Project WET Credit Workshop, 10 K-12 Educators, Fargo
October 15, 2011	C ² E ² Meeting, Long Lake NWR
October 19, 2011	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
October 20-23, 2011	North Dakota Education Association Conference, Bismarck, 5 Sessions, 52 K-12 Educators
October 28, 2011	Keep ND Clean Meeting, Bismarck

November 9, 2011	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
December 8-9, 2011	ND State Water Convention, Bismarck
December 21, 2011	Bismarck Earth Day Festival Program Committee Meeting, Bismarck
January 20-21, 2012	Project WET One Graduate Credit Workshop, Fargo, 22 K-12 Educators
Feb 1 & 15, 2012	Dakota College Preservice Project WET Workshop, 4 Pre-service Educators
February 24-25, 2012	ND Science Teachers Conference, Bismarck, Booth and Two Presentations, 120 K-12 Educators
March 8, 2012	Project WET One Graduate Credit Workshop, Fargo, 12 K-12 Educators
March 14, 2012	Gateway to Science Environmental Festival, 983 Grade 5 Youth, Bismarck
March 22, 2012	Project WET One Graduate Credit Workshop, Fargo, 12 K-12 Educators
March 28, 2012	Keep ND Clean Board Meeting, Bismarck
March 29, 2012	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
April 12 & 19, 2012	Project WET Pre-service Natural Resource Student Program, 20 Pre-service Students, Fargo
April 23, 2012	Project WET Program and Booth, Dakota Science Center Super Science Saturday, Grand Forks
April 23, 2012	Keep ND Clean Poster Program, 1,346 Grades 6 Youth
April 19, 2012	Bismarck Earth Day Festival, 725 Grade Six Youth; 679 Adults and Youth
May 4 & 5, 2012	Project WET One Graduate Credit Workshop, Fargo, 10 K-12 Educators
May 8, 2012	Morton County Make a Splash Water Festival, Mandan, 362 Grade 5 Youth
May 9, 2012	Wahpeton Red River Water Festival, Wahpeton, 240 Grades 3-6 Students
May 15-16, 2012	Grand Forks Children's Water Festival, East Grand Forks, 310 Fourth Grade Youth
May 10-12, 2012	ND Envirothon State Competition, Crystal Springs Baptist Camp, 112 Grades 9-12 Youth; 90 Adults
May 15-16, 2012	Bismarck Make a Splash Water Festival, 859 Grade 3 Youth
June 7-8, 2012	Project WET Two Graduate Credit Workshop, Fargo, 23 K-12 Educators
June 22, 2012	Project WET 4-H Clover Youth Program, Washburn, 60 Grades 1-2 Youth and Adults
July 14-20, 2012	James and Sheyenne Watershed Institute, Valley City State College, Valley City, 33 K-12 Educators
August 6-7, 2012	Project WET Leadership Training, Bozeman, Montana

August 6-7, 2012	Project WET One Graduate Credit Workshop, Fargo, 12 K-12 Educators
September 13-14, 2012	Dickinson Make a Splash Water Festival, Dickinson, 466 Grade 5 Youth
September 13, 2012	Dickinson Water Festival Family Night, Dickinson, approximately 402 Adults and Youth
September 21-24, 2012	Red River Make a Splash Water Festival, Moorhead, MN, 1565 Grade 3 and 4 Youth
October 16, 2012	Earth Day Committee Meeting, Bismarck
October 24-25, 2012	Project WET Pre-service Training, Bottineau 15 students
November 7, 2012	NPS Task Force Meeting, Bismarck
November 28, 2012	Keep North Dakota Clean Committee Meeting, Bismarck
December 4, 2012	C2E2 Annual Meeting, Bismarck
December 4-6, 2012	49 th Annual North Dakota Joint Water Commission, Bismarck
December 14,	ND Water Education Board Meeting, Bismarck
January 8, 2013	Envirothon Aquatic Committee Meeting, Bismarck
January 17, 2013	Keep North Dakota Clean Board Meeting, Bismarck
January 22-24, 2013	30 th Annual Red River Basin Conference
January 30, 2013	Envirothon Aquatic Committee Meeting, Bismarck
February 5 & 19, 2013	Dakota College Preservice Project WET Workshop, 11 Pre-service Educators
February 12-13, 2013	Explore Your Watershed Institute Meeting, Williston
February 20, 2013	Earth Day Committee Meeting, Bismarck
February 24-25, 2013	ND Science Teachers Conference, Bismarck, Booth and
March 7-8, 2013	Prairie Waters Water Festival, Grade 5 Youth 243, Kathryn
March 13-14, 2013	Gateway to Science Environmental Festival, 983 Grade 5 Youth, Bismarck
March 26, 2013	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
March 27, 2013	Keep ND Clean Board Meeting, Bismarck
April 11 & 18, 2013	NDSU Project WET Pre-service Natural Resource Student Program, 17 Pre-service Students, Fargo
April 23, 2013	Keep ND Clean Poster Program, 2,333 Grades 6 Youth
April 24-25, 2013	Bismarck Earth Day Festival, 850 Grade Six Youth; 679 Adults and Youth
April 26, 2013	Keep North Dakota Clean Banquet, Washburn, 90 Grade 1-12 Youth
April 28, 2013	Project WET Program and Booth, Dakota Science Center Super Science Saturday, Grand Forks, 2300 Youth and Adults
May 1-2, 2013	Grand Forks Children's Water Festival, East Grand Forks, 474 Fourth Grade Youth
May 8, 2013	Wahpeton Red River Water Festival, Wahpeton, 290 Grades 3-6 Students

May 9, 2013	Morton County Make a Splash Water Festival, Mandan, 402 Grade 5 Youth
May 9-11, 2013	ND Envirothon State Competition, Crystal Springs Baptist Camp, 110 Grades 9-12 Youth; 87 Adults
May 15-16, 2013	Bismarck Make a Splash Water Festival, 936 Grade 3 Youth
May 31, 2013	Summer Reading Kickoff, Bismarck, 3000 Pre K – 5 Grade Youth and Adults
June 21, 2013	Project WET 4-H Clover Youth Program, Washburn, 75 Grades 1-2 Youth and Adults
July 22-25	Project WET Leadership Facilitator Training, Bismarck, 19 Adults
August 6-7, 2013	Project WET Leadership Training, Bozeman, Montana
August 6-7, 2013	Project WET One Graduate Credit Workshop, Fargo, 12 K-12 Educators
September 13-14, 2013	Dickinson Make a Splash Water Festival, Dickinson, 453 Grade 5 Youth
September 13, 2013	Dickinson Water Festival Family Night, Dickinson, approximately 520 Adults and Youth
September 13, 2013	Tioga Make A Splash Water Festival, Tioga, approximately 156 Grade K-3 and 5 Youth
September 17-20, 2013	Red River Make a Splash Water Festival, Moorhead, MN, 1624 Grade 3 and 4 Youth
September 25-26, 2013	Missouri Yellowstone Confluence Center Water festival, Williston, 386 Grade 5 Youth
September 30, 2013	Logan County Water Days, 56 4 th grade Youth, Napoleon
October 16, 2013	Earth Day Committee Meeting, Bismarck
October 17-18, 2013	NDU Common Core Assessment Conference, Bismarck
October 17-18, 2013	Project WET Pre-service Training, Bottineau 10 students
November 26, 2013	Keep North Dakota Clean Committee Meeting, Bismarck
November 5, 2013	C2E2 Annual Meeting, Bismarck
December 10-13, 2013	50 th Annual North Dakota Joint Water Commission, Bismarck
December 17, 2013	ND Water Education Board Meeting, Bismarck
January 13, 2014	Envirothon Committee Meeting, Jamestown
January 14-16, 2014	Red River Land and Water International Summit Conference, Fargo
January 21, 2014	C2E2 Strategic Plan Meeting, Bismarck
January 22, 2014	Earth Day Committee Meeting, Bismarck
January 23, 2014	Envirothon Aquatics Committee, Bismarck
Feb 1 & 15, 2014	Dakota College Preservice Project WET Workshop, 4 Pre-service Educators
February 20-22, 2014	ND Science Teachers Conference, Valley City, Booth and Two Presentations, 165 K-12 Educators
March 4-6, 2014	Water Quality Conference, Bismarck

March 19-20, 2014	Gateway to Science Environmental Festival, 950 Grade 5 Youth, Bismarck
March 21, 2014	Keep ND Clean Board Meeting, Bismarck
March 29, 2014	Bismarck Earth Day Festival Planning Committee Meeting, Bismarck
April 12 & 19, 2014	Project WET Pre-service Natural Resource Student Program, 18 Pre-service Students, Fargo
April 23, 2014	Project WET Program and Booth, Dakota Science Center Super Science Saturday, 2000 Youth and Adults, Grand Forks
April 22, 2014	Morton County Make a Splash Water Festival, Mandan, 348 Grade 5 Youth
April 24, 2014	Dakota College Make a Splash Water Festival, Bottineau, 250 Grade 5 and 6 Youth
April 24, 2014	Bismarck Earth Day Festival, 846 Grade Six Youth; 750 Adults and Youth
April 25, 2014	Keep ND Clean Poster Program, 1,299 Grades 6 Youth (11,056 Total Program)
April 30, 2014	C2E2 Spring Annual Meeting, Fargo
May 5-6, 2014	Grand Forks Children's Water Festival, East Grand Forks, 374 Fourth Grade Youth
May 14, 2014	Wahpeton Red River Water Festival, Wahpeton 360 Grades 3-6 Youth
May 7-9, 2014	ND Envirothon State Competition, Crystal Springs Baptist Camp, 105 Grades 9-12 Youth; 90 Adults
May 19 -20, 2014	Bismarck Make a Splash Water Festival, Bismarck, 950 Grade 3 Youth
July 14, 2014	Keep North Dakota Clean Meeting, Bismarck
September 18-19, 2014	Dickinson Make a Splash Water Festival, Dickinson, 520 Grade 5 Youth
September 18, 2014	Dickinson Water Festival Family Night, Dickinson, approximately 350 Adults and Youth
September 16-19 & 22, 2014	Red River Make a Splash Water Festival, Moorhead, MN, 2004 Grade 3 and 4 Youth
September 24-25, 2014	Missouri Yellowstone Confluence Center Water festival, Williston, 406 Grade 5 Youth



ND Project WET
(Water Education for Teachers)

PROJECT WET EVALUATION/EXIT SURVEYS WORKSHOP EVALUATION

Name: _____ Home Address: _____

Phone Number (home): _____ Phone Number (school): _____

Subject(s) or Topics Taught: _____

Grade Level(s) Taught: _____

School Where You Teach: _____

School Address: _____

E-mail Address: _____

1. Date(s) and location of workshop attended: _____
Have you been involved in a Project WET water education program in the past? [☐] YES [☐] NO
If YES, approximately when, where and what type of Project WET water education program did you take and to what extent did this workshop build on your previous water education program?

2. Was the training provided in this workshop appropriate for your own professional development plan, content areas, subject(s) and/or grade level(s) you teach? **If NO, what suggestions do you have to make it more appropriate.**

3. Were the objectives of the workshop clearly stated [☐] YES [☐] NO [☐] SOMEWHAT and accomplished?

4. Did the workshop meet your expectations? [☐] YES [☐] NO [☐] SOMEWHAT

If you answered NO or SOMEWHAT to questions 3 and/or 4, please provide suggestions as to how the workshop could have achieved better results.

5. Did this workshop provide you with an understanding of the Project WET educational materials and resources?
☐ YES ☐ NO ☐ SOMEWHAT

6. Do you have a good understanding of how to use and incorporate the Project WET guide into your classroom teaching situations?
☐ YES ☐ NO ☐ SOMEWHAT

7. Did this workshop give you insight into the importance of teaching K-12 students about ND's water resources, water quality/NPS pollution and solutions to those impacts in your classroom?
☐ YES ☐ NO ☐ SOMEWHAT

If you answered NO OR SOMEWHAT to questions 5,6 and/or 7 please provide suggestions as to how the workshop could have been more successful.

8. This workshop was: ☐ Excellent ☐ Very Good ☐ Good ☐ Fair

9. Your workshop facilitator(s) were: ☐ Excellent ☐ Very Good ☐ Good ☐ Fair

10. The workshop structure, location and methods of teaching were:
☐ Excellent ☐ Very Good ☐ Good ☐ Fair

Please explain your responses to questions 8, 9 and 10.

11. Will you incorporate Project WET resources, materials and teaching ideas from this workshop into your classroom teaching situations? ☐ YES ☐ NO. **Please explain your response.**

12. Did this workshop help meet your school/district/state educational priorities, standards and assessments for the subject(s) and grade(s) you teach?
☐ YES ☐ NO ☐ SOMEWHAT

13. Please provide your overall comments about this workshop (strengths, limitations, areas needing improvement, comments about specific components, topics/areas most useful to you).

14. I would like to assist the Project WET Program in the following manner [X].

[] Attending another type of Project WET educational program. Please specify what type of program (x)

_____ Discover Today's Devils Lake Institute

_____ Discover Today's Missouri River Institute

_____ Discover Today's James and Sheyenne Rivers Watershed Institute

_____ Discover Today's Mouse River Watershed Institute

_____ Discover Today's Northwestern Missouri River Institute

_____ Discover Today's Southwestern ND Missouri River Watershed Institute

_____ Discover Today's Red River Watershed Institute

_____ Another type of single credit workshop (specify) _____

[] Organizing a local water community service learning project with some assistance.

[] Helping organize a local workshop or educational program that would address other items of interest concerning water resources for educators and/or students.

[] Serving as a point of contact for distributing notices of educational offerings (e.g. workshops, education programs, materials, etc.) in my and other neighboring school districts.

[] **Becoming a facilitator and promoting and conducting Project WET programs in my local area for educators and/or students.**

[] Not interested at this time.

Thank you for taking the time to respond!!!



2012 Discover Today's James and Sheyenne Watershed Institute Evaluation

Please provide us with the following information:

Name: _____

Address and telephone # (where you prefer mail): _____

E-Mail address: _____

Grade level(s) taught: _____

Subject(s) taught: _____

Have you been involved in a Project WET water education workshop and/or watershed institute or other program in the past? ☐ **Yes** ☐ **No**

a. If yes, when were you involved and what type of program were you involved in?

b. If yes, to what extent did the Discover Today's Devils Lake Watershed Institute build upon your previous water education experience(s)?



SUNDAY EVALUATION

Please answer the following questions by circling the appropriate response. **In the space provided please include your ideas and suggestions for improvement or why you felt the experience was worthwhile.**

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. The Discover Today's James and Sheyenne Watershed Institute

Introductory Areas were:

- | | | | | |
|---|---|----|---|---|
| a. Explanation of Institute Objectives. | E | VG | G | F |
| b. Explanation of Institute Materials and Overview of Project WET | E | VG | G | F |
| c. Overview of Institute | E | VG | G | F |
| d. James and Sheyenne Discoveries/Icebreaker: Rope Map Activity | E | VG | G | F |

Comments:

2. Introduction to Project WET and Sampler Activities were:

- | | | | | |
|--|---|----|---|---|
| a. Navigating the Project WET Generation 2 Guide | E | VG | G | F |
| b. Project WET Generation 2 Guide Activity (Pucker Effect p.363) | E | VG | G | F |
| c. Project WET Activity (WET T-shirts) | E | VG | G | F |
| d. Introduction to Stream and Water Quality Monitoring Terminology | E | VG | G | F |
| e. Conducting Stream Survey Kits | E | VG | G | F |
| f. Development of Watershed Journal | E | VG | G | F |

Comments:



MONDAY EVALUATION

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. The presentation and tour of:

- | | | | | |
|--|---|----|---|---|
| a. James/Sheyenne Watershed Issues/Devils Lake Outlets by Mike Noone | E | VG | G | F |
| b. Sheyenne/Maple River Diversions and Dam by Randy Gjestvang | E | VG | G | F |
| c. Sheyenne River Flooding/Valley City Water Treatment Plant by Dave Schelkoph, and Wade Hesch | E | VG | G | F |

Comments:

2. The tour of:

- | | | | | |
|---|---|----|---|---|
| a. Valley City National Fish Hatchery by Kurt Eversman | E | VG | G | F |
| b. Baldhill Dam/Lake Ashtabula by Scott Tichy | E | VG | G | F |
| c. Tour AG Waste Stem sites, Discovery Farm site and Traveling Irrigation System site by Lori Frank | E | VG | G | F |

Comments:

3. Introduction Areas and Sampler Activities were:

- | | | | | |
|--|---|----|---|---|
| a. Healthy Water, Healthy People Guide | E | VG | G | F |
| b. Snap Shot in Time p.61 | E | VG | G | F |
| c. Create Water Quality Kit | E | VG | G | F |

Comments:



TUESDAY EVALUATION

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. The Prairie Waters Education and Research Center Activities were:

- | | | | | |
|---|---|----|---|---|
| a. ND Mussels by Dr. Andre Delorme | E | VG | G | F |
| b. Geocaching by VCSU Student Workers | E | VG | G | F |
| c. Riverwatch Program/Water Chemistry by Joelle Manlove | E | VG | G | F |

Comments:

2. Activities at Clausen Springs were:

- | | | | | |
|---|---|----|---|---|
| a. Canoeing by VCSU Student Workers | E | VG | G | F |
| b. Macro Collection by Dr. Andre DeLorme | E | VG | G | F |
| c. Water Chemistry w/LaMotte Kits by Joelle Manlove | E | VG | G | F |

Comments:

3. Introduction to Areas and Sampler Activities were:

- | | | | | |
|--|---|----|---|---|
| a. Project WET Generation 2 Guide Activity (Seeing Watersheds p.187) | E | VG | G | F |
| b. Navigating WOW! Wonders of Wetlands Guide | E | VG | G | F |
| c. Project WET Generation 2 Guide Activity (Macro Hotels) | E | VG | G | F |

Comments:



WEDNESDAY EVALUATION

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. The tour of:

- | | | | | |
|--|---|----|---|---|
| a. The tour of Cargill Malt Plant by Craig Kopp | E | VG | G | F |
| b. The Tour of Spiritwood Station by Lyndon Andersen | E | VG | G | F |
| c. The tour of Cavendish Farms by Greg Allen | E | VG | G | F |

Comments:

2. The tour of:

- | | | | | |
|--|---|----|---|---|
| a. The Tour of Jamestown Wastewater Facility by Doug Thingstad | E | VG | G | F |
| b. The tour of Jamestown Dam/James River Flood by Bob Martin | E | VG | G | F |
| c. The tour of Pipestem Dam/Pipestem River Flood by Bob Martin | E | VG | G | F |

Comments:

3. Introduction to Areas and Sampler Activities were:

- | | | | | |
|---|---|----|---|---|
| a. Project WET Generation 2 Guide Activity (Incredible Water Journey p.155) | E | VG | G | F |
|---|---|----|---|---|

Comments:



THURSDAY EVALUATION

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. Project WET/Streamkeepers Activities at Little Yellowstone Park:

- | | | | | |
|--|---|----|---|---|
| b. Conducting Stream Physical Characteristics Survey by Dave Marquardt | E | VG | G | F |
| c. Conducting a Benthic Macro Invertebrate Assessment/Biotic Index by Kim Belgarde | E | VG | G | F |
| d. Conducting a Stream Water Quality Chemical Assessment by Angie Bartholomay | E | VG | G | F |
| e. Conducting a Stream Habitat Assessment by Tina Harding | E | VG | G | F |

Comments:

2. The tour of:

- | | | | | |
|--|---|----|---|---|
| a. The Tour of Ft. Ransom State Park by John Kwapinski | E | VG | G | F |
|--|---|----|---|---|

Comments:

3. Introduction to Areas and Sampler Activities were:

- | | | | | |
|--|---|----|---|---|
| a. The Healthy Water, Healthy People Guide Activity (Water Quality Monitoring from Design to Data p.70) by Angie Bartholomay | E | VG | G | F |
| b. The Sheyenne River Adventures by John Kwapinski | E | VG | G | F |
| c. Project WET Generation 2 Guide Activity (High Water History p. 321) by Angie Bartholomay | E | VG | G | F |

Comments:



FRIDAY EVALUATION

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

1. Activity and Presentation of:

- | | | | | |
|---|---|----|---|---|
| a. WOW! Wonders of wetlands Activity (Make and Take) by Kim Belgarde | E | VG | G | F |
| b. The Oakes Test Area; Garrison Diversion Conservancy District by Dale Esser | E | VG | G | F |

Comments:

OVERALL INSTITUTE EVALUATION

Note: SA = Strongly Agree, A = Agree, U = Undecided, D = Disagree, SD = Strongly Disagree

1. The experiences that I received through the Discover Today's James and Sheyenne Watershed Institute met or exceeded my expectations: SA A U D SD

Comments:

2. I now have a greater understanding and appreciation of the James and Sheyenne watershed issues and concerns and its importance to North Dakota: SA A U D SD

Comments:

3. I will use, incorporate and teach about the James and Sheyenne watershed, North Dakota water resource issues and my own local watershed issues in my classroom situation: SA A U D SD

Comments:

Note: E = Excellent, VG = Very Good, G = Good, F = Fair

4. The Discover Today's James and Sheyenne Watershed Institute Facilitators, Instructors and Presenters were:

E VG G F

Comments:

5. Overall the Discover Today's James and Sheyenne Watershed Institute was: E VG G F

Comments:

6. This Institute helped meet my school/district/state educational priorities and/or standards for the subject(s) and grade(s) I teach? ☐ YES ☐ NO ☐ SOMEWHAT

Comments:

I would like to assist the Project WET Explore Your Watershed Program in the following manner [X]

☐ Attend another type of Project WET Explore Your Watershed educational program.

Please specify what type of program (x)

- ☐ Discover Today's Devils Lake Watershed Institute
- ☐ Discover Today's ND Red River Watershed Institute
- ☐ Discover Today's Northwestern ND Missouri River Watershed Institute
- ☐ Discover Today's James and Sheyenne Rivers Watershed Institute
- ☐ Discover Today's Mouse River Watershed Institute
- ☐ Discover Today's Southwestern ND Missouri River Watershed Institute
- ☐ Discover Today's ND Central Missouri River Watershed Institute
- ☐ Another type of single credit workshop or multi-credit institute

(specify) _____

☐ Organize a local water festival or other student water education event with some assistance.

☐ Help organize a local Project WET Explore Your Watershed program that would address local water resource issues.

☐ Serve as a point contact for distributing notices of educational offerings (e.g. workshops, materials, etc.) in my school district or local area.

☐ **Become a facilitator in promoting and conducting Project WET Explore Your Watershed programs in my local area for educators and/or students**

☐ Not interested at this time.

THANK YOU FOR TAKING THE TIME TO RESPOND!!



ND Project WET
(Water Education for Teachers)

2012 Discover Today's James and Sheyenne Watershed Institute Participant Goals/Expectations

1. What are your personal learning goals and expectations that you hope to receive as a result of completing the institute (why are you attending the Institute)?

2. How do you expect or hope to use the knowledge and materials you gain through this Institute with your students (how will you use institute content)?

3. Do you have any personal areas of interest or specific questions that you want answered regarding Institute topics?

Discover Today's Watershed Institute Evaluation Results - Sample

Name:

SUNDAY

1. The Discover Today's James and Sheyenne Watershed Institute

- a. Explanation of Institute Objectives: Excellent
- b. Explanation of Institute Materials and Overview of Project WET: Excellent
- c. Overview of Institute: Excellent
- d. James and Sheyenne Discoveries/Icebreaker: Rope Map Activity: Excellent

Comments: even though this is my fifth Project WET class I learn new information with each class & familiarize myself with past information/lessons,

2. Introduction to Project WET and Sampler Activities were:

- a. Navigating the Project WET Generation 2 Guide: Excellent
- b. Project WET Generation 2 Guide activity (Pucker Effect p.363): Excellent
- c. Project WET Activity (WET T-shirts): Excellent
- d. Introduction to Stream and Water Quality Monitoring Terminology: Excellent
- e. Conducting Stream Survey Kits: Excellent
- f. Development of Watershed Journal: Excellent

Comments: The great thing about this class is the activities. The activities keep everyone active and engaged, this makes the time fly by.

MONDAY

1. The presentation and tour of:

- a. James/Sheyenne Watershed Issues/Devils Lake Outlets by Mike Noone: Excellent
- b. Sheyenne/Male River Diversions and Dam by Randy Gjestvang: Very Good
- c. Sheyenne River Flooding/Valley City Water Treatment Plant by Dave Schekoph and Wade Hesch: Good

Comments: Mike is always very informative and entertaining. I thoroughly enjoy the information in his presentation.

2. The tour of:

- a. Valley City National Fish Hatchery by Kurt Eversman: Excellent
- b. Balhill Dam/Lake Ashtabula by Scott Tichy: Very Good
- c. Tour AG Waste Stem sites, Discovery Farm site and Traveling Irrigation System site by Lori Frank: Excellent

Comments: 1. It is amazing to witness first-hand the process that is necessary to keep/maintain the game fish in our lakes. 2. Nice to know that the EPA considers farms good stewards of the land. 3. Lori is a very dynamic speaker you can tell she like what she does.

3. Introduction Areas and Sampler Activities were:

- a. Healthy Water, Healthy People Guide: Very Good

- b. Snap Shot in Time p. 61: Very Good
 - c. Great Water Quality Kit: Excellent
- Comments; I teach H₂O Chemistry, therefore this kit will come in handy.

TUESDAY

1. The Prairie Waters Education and Research Center Activities were:
 - a. ND Mussels by Dr. Andre Delmore: left blank
 - b. Geocaching by VSU Student Workers: Very Good
 - c. Riverwatch Program/Water Chemistry by Joelle Manlove: Excellent

Comments: I am very interested in monitoring the Souris River quality following the Sour River flood of 2011. Therefore Joelle's hands-on class was very helpful.

2. Activities at Clausen Springs were:
 - a. Canoeing by VSCU Student Workers: Excellent
 - b. Macro Collection by Dr. Andre Delorme: Excellent
 - c. Water Chemistry with/LaMotte Kitts by Joelle Manlove: Excellent

Comments: The student workers were both knowledgeable and helpful. The canoeing and Macro's stations were awesome!

3. Introduction to Areas and Sampler activities were:
 - a. Project WET Generation 2 Guide Activity (Seeing Watershed p. 187): Excellent
 - b. Navigating WOW! Wonders of Wetlands Guide: Excellent
 - c. Project WET Generation 2 Guide Activity (Macro Hotels): Excellent

Comments: Awesome activities, they involve many people @one time, very active. I am going to try this with my older students this year.

WEDNESDAY

1. The tour of:
 - a. The tour of Cargill Malt Plant by Craig Kopp: Very Good
 - b. The tour of Spiritwood Station by Lyndon Andersen: Good
 - c. The Tour of Cavendish Farms by Greg Allen: Excellent

Comments: Good to know that the waste products from the malting plant are made into feed pellets. The young lady that conducted our tour @ Cavendish Farms was very energetic, informative and spoke clearly using terms that I understand.

2. The tour of:
 - a. The tour of Jamestown Wastewater Facility by Doug Thingstad: Good
 - b. The tour of Jamestown Dam/James River Flood by Bob Martin: Good
 - c. The tour of Pipestem Dam/Pipelstem River Flood by Bob Martin: Good

Comments: These tours were ok, nevertheless, they were the least exciting of the week.

3. Introduction to Areas and Sampler Activities were:
 - a. Project WET Generation 2 Guide Activities (Incredible Water Journey p. 155): Very Good

Comments: I love all of the bright colors of the game.

THURSDAY

1. Project WET/Streamkeepers Activities at Little Yellowstone Park:
 - a. Conducting Stream Physical Characteristics Survey by Dave Marquardt: Excellent
 - b. Conducting a Benthic Macro Invertebrate Assessment/Biotic Index by Kim Belegarde: Excellent
 - c. Conducting a Stream Water Quality Chemical Assessment by Angie Bartholomay: Excellent
 - d. Conducting a Stream Habitat Assessment by Tina Harding: Very Good

Comments: I absolutely love studying in the field. This is always my favorite day of the watershed class. I could look for macroinvertebrates all day long if given a chance.

2. The tour of:
 - a. The tour of Fort Ransom State Park by John Kwapinski: Good
- Comments: This was a good tour. Nevertheless, I was in the back of the van and couldn't hear most of what he was saying.

3. Introduction to Areas and Sampler Activities were:
 - a. The Healthy Water, Healthy People Guide Activity (Water Quality Monitoring from Design to Data p. 70) by Angie Bartholomay: Excellent
 - b. The Sheyenne River Adventures by John Kwapinski: N/A
 - c. Project WET Generation 2 Guide Activity (High Water History p. 321) by Angie Bartholomay: Excellent

Comments: Even though this activity was very simple it really does show the frequency & unpredictability of flooding.

FRIDAY

1. Activity and Presentation of:
 - a. WOW! Wonders of Wetlands Activity (Make and Take) by Kim Belegarde: Very Good
 - b. The Oakes Test Area; Garrison Diversion Conservancy District By Dale Esser: Excellent

Comments:

Excellent game!

Overall Institute Evaluation

1. The experiences that I received through the Discover Today's James and Sheyenne Watershed Institute met or exceeded my expectations: Strongly Agree

Comments: This is my fifth institute. I learn new ideas with each class, even if they are conducted in the same site. I love all of the activities and learning in a different environment.

2. I now have a greater understanding and appreciation of the James and Sheyenne watershed issues and concerns and its importance to North Dakota: Strongly Agree

Comments: Even though the James & Sheyenne Rivers are relatively small their drainage basin covers many square miles and can potentially impact many people downstream ie Grand Forks, Fargo, Valley City, Winnipeg

3. I will use, incorporate and teach about the James and Sheyenne River watershed, North Dakota water resource issues and my own local watershed issues in my classroom situation: Strongly Agree

Comments: There are the areas that I plan to cover this year: watershed, water Rx, microinvertebrates, water chemistry and flow

4. The Discover Today's James and Sheyenne Watershed Institute Facilitators, Instructors and Presenters were: Excellent

Comments: The instructors make the course fun and interesting.

5. Overall the Discover Today's James and Sheyenne Watershed Institute was: Excellent:

Comments: Great course... great time!

6. The Institute helped meet my school/district/state educational priorities and/or standards for the subject(s) and grade(s) I teach: Yes

Comments: This coming fall I will be teaching environmental science and earth science. I will be able to use many of the activities that we learned in my own class.

WATER FESTIVAL PRESENTER EVALUATION

Name (optional): _____ Organization (optional) _____

**** Please return evaluation to the check-in table before leaving.****

or send, fax or email to:

River Keepers

325 7th Street S

Fargo, ND 58103-1846

Fax: 701-235-7394

Christine@riverkeepers.org

.....

1. What did you like best about the water festival?

2. How could the water festival be improved?

3. What did you think about the length of the presentations?

4. Do you think journaling was a good exercise for the students?

5. What did you think of the venue?

6. How can we better serve you as a presenter?

7. Would you be interested in participating in the water festival again next year?

8. What general comments about the water festival did you hear from teachers and students?

9. Do you have any additional comments or suggestions?

Thank you for your feedback!

We will use it to help make next years Red River Water Festival even better!

WATER FESTIVAL TEACHER EVALUATION

Name (optional): _____ Organization (optional) _____

**** Please return evaluation to the check-in table before leaving.****

or send, fax or email to:

River Keepers

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-
1. Did the activity description and schedule sent out ahead of time assist you in preparing your class for the water festival?
 2. What did you enjoy the most about the water festival?
 3. How could the water festival be improved?
 4. Is journaling useful for your students?
 5. What other topics/presentations would be useful for your curriculum?
 6. What did you think of the location?
 7. Was the Teacher Resource area useful to you?
 8. If you participated in the optional ½ day outside, what did you think of that venue? Logistics? Activities?
 9. Do you have any additional comments or suggestions?
-

1. What were your favorite activities at the water festival? Why?
2. What were your least favorite activities at the water festival? Why?

Thank you for your feedback!!

Red River Water Festival

Are Your Light Bulbs Leaking?: Converting energy from a natural resource to sources we can use often consumes large amounts of water. The more energy we use the more water we use. Led by Carl Pedersen, NDSU Extension Service Agricultural & Biosystems Engineering Department.

Aqua Bodies: Compare the water content of a person, lettuce or a whale. Led by Ginger Deitz, ND Project WET Facilitator/Fargo Public Schools.

H2O Olympics: Compete in games to investigate the physical properties of water. Led by Bill Sharff, North Dakota State Water Commission, Project WET.

Incredible Journey: Role-play the effects of the water cycle on water quality. Led by Kim Belgarde, ND Project WET Facilitator and Fargo Public Schools; and Grit May, International Water Institute.

Let the Cattail Out of the Bag!: Consider a selection of common objects as metaphors for natural wetland functions. Led by Jenny Rehder, Clay County Extension - 4-H.

The Life Box: Discover four essential factors needed to sustain life. Led by Concordia College students; Master Gardeners of Clay County, and Evelyn Ashiamah-Finch, International Water Institute.

River Scavenger Hunt

There are so many things to hear, see, feel and smell at a river....see if you can check off everything on the list below. Remember, you should not pick up anything living, just mark it off on the list.

Things to feel:

- ☐ Wet mud
- ☐ Tree bark
- ☐ Wind
- ☐ Rotten wood



Things to smell:

- ☐ A flower
- ☐ Green grass
- ☐ Water
- ☐ Mud

Things to see:

- ☐ Feather
- ☐ Hole in a tree
- ☐ Scat
(animal droppings)
- ☐ Animal tracks

Things to hear:

- ☐ Bee
- ☐ Leaves in the wind
- ☐ Dry leaves under feet
- ☐ Bird singing



Things happening:

- ☐ Ant moving something
- ☐ Spider web with a bug in it
- ☐ Leaf falling
- ☐ Animal eating
- ☐ Fish jumping



My Life as a River

Sit down near the river. Take a few moments to watch the river. Imagine it in different seasons. What animals live in the water and on it's banks? How do people use the river? Write about a day in the life of a river as if you were the river.

Activities and Presenters

Mystery Under the City: Where Does the Water Go?:

What is a watershed? How do you affect your watershed? Led by Tammy Lee, City of Moorhead.

Red River History: Capt'n Steve Stark presents the history of the Red River while drawing a charcoal mural.

River Crime Lab: Examining evidence and to develop theories; develop a sense of citizenship and community. Led by Advanced Engineering and Environmental Services.

River Meanders: See the formation of a river, erosion, and riparian buffers. Led by Courtney Kastning and Tina Pierce, Cass County Soil Conservation District.

Stream Sense: Observe the river, learning there is more to flowing water than meets the eye. Led by Darlene Boyle, Fargo Public Schools and ND Project WET facilitators.

Sum of the Parts: Recognize that everyone contributes to pollution of a river as it flows through a watershed. Led by Linda Helstern; Concordia College students; and Leslie Hagemeister, Project WET facilitator.

Transparent or Not?: Learn how to measure the clarity of the Red River and learn about what it means for the plants and animals that live in the river. Led by Barnesville River Watch students.



More Activities and Presenters

Trees...the Water Keepers!: Learn how trees improve water quality and discover leaf characteristics. Led by Shannon Thornton, Concordia College students, and Jessica Meissner.

Water Treatment Officer: Simulate the treatment process water goes through before it flows from our tap. Led by Daryl Brahos, Moorhead Public Service; and Mark Blonigen, City of Fargo Water Treatment Plant.

Web Of Life: Participate in a game that explains relationships of organisms within the wetland ecosystem. Led by United States Fish & Wildlife Service.

Would You Drink This Water?: Can senses determine water quality? Led by Emily Nerland, retired Moorhead Public Schools teacher; and Concordia College students.

Field Sketching

Tips:

1. Draw something along the river. It could be a whole scene, different types of leaves, or birds.
2. Don't worry about what your drawing looks like.
3. Look closely and notice all the details.
4. Write notes next to your sketch (date, location, your name, any observations you noticed or would like to remember).

Station Name _____

What did you do at this station?

List two new things that you learned:

What new words did you learn?

What would you like to know more about?

Station Name _____

What did you do at this station?

List two new things that you learned:

What new words did you learn?

What would you like to know more about?



Circle which institution you are seeking graduate credit

NDSU

Distance & Continuing Education

MiSU

Center for Extended Learning

UND

Professional Development for Educators

FEEDBACK AND EVALUATION FORM

Course/Conference:	Instructor Name:	Location:	Date(s):

Respond to the following statements
using the scale at the right:

1

2

3

4

5

(strongly disagree)

(mixed opinion)

(strongly agree)

1. The course was well organized.

1

2

3

4

5

2. The instructor had reasonable
expectations for this course.

1

2

3

4

5

3. The instructor motivated me to
learn the course material.

1

2

3

4

5

4. Exams/assignments challenged
me to think & apply what I learned.

1

2

3

4

5

5. My expectations for learning was met.

1

2

3

4

5

6. Text/materials/resources was useful.

1

2

3

4

5

7. The evaluation of my work was fair.

1

2

3

4

5

8. Overall, instructor was effective.

1

2

3

4

5

9. Overall, this was a valuable course.

1

2

3

4

5

10. The facility met our needs well.

1

2

3

4

5

What was **most** valuable about the course?

What was *least* valuable?

Suggested topics for future courses? Locations? Time frame?

How did you find out about this course?

Any other comments? (Use the back if necessary).

THANK YOU



ND Project WET: Water Education for Teachers Workshop Evaluation Results

Was the training provided in the workshop appropriate for your own professional development plan, content areas, subject(s) and or grade level(s) you teach?

Yes	No
8	0

Were the objectives of the workshop clearly stated and accomplished?

Yes	No	Somewhat
8	0	0

Did the workshop meet your expectations?

Yes	No	Somewhat
7	0	1

Did the workshop provide you with an understanding of the Project WET educational materials and their use (i.e. strategies, teaching tips, K-12 Guide)?

Yes	No	Somewhat
8	0	0

Do you have a good understanding of how to use and incorporate the Project WET K-12 Curriculum Guide and other Project WET educational materials into your classroom teaching situations?

Yes	No	Somewhat
8	0	0

Did this workshop give you insight into the importance of teaching K-12 students about water and water resource issues using Project WET water education materials in your classroom?

Yes	No	Somewhat
8	0	0

The workshop was?

Excellent	Very Good	Good	Fair
5	3	0	0

Your workshop facilitator(s) were?

Excellent	Very Good	Good	Fair
6	2	0	0

The workshop structure, location and methods of teaching were?

Excellent	Very Good	Good	Fair
7	0	1	0

Comments:

I truly learned a lot about a subject I had no prior concern about. Excellent facilitators from diverse backgrounds. Great role modeling. The workshop structure was organized and time was utilized efficiently. This allowed more activities! Tina – it was fun to watch you model the H₂Olympics. You are a class act! Great tips. I was impressed by everything except knowledge of what the conference entail beforehand. No one I talked to knew it was in town, for example. Facilitators did a good job explanations – the workshop was well organized and the location was scenic and a good work site – there was a variety of teaching methods that used a great deal of hands on activity. I wanted to get onto the portal and exposure to the Common Core Standards which was accomplished. Tina, Angie, and Dave were all great. Things with technology got a little muddled and complicated. The confluence center was amazing! Wish we could have it incorporated its river access into the workshop more. Enjoyed the workshop very much! Enjoyed the time, instruction, and games – materials and supplies will be a great help when planning a H₂O festival.

Will you incorporate Project WET educational resources, materials and teaching ideas from this workshop into your classroom teaching situations?

Yes	No
8	0

Comments:

Many activities are applicable to 4th grade science. It has practical applications and activities that can be incorporated into a biology course. I will incorporate activities into all five of our Ag in the classroom workshops. I will do at least two Project WET water festival activities for the 2013 -14 school year. I create at least one interpretive program based on a project WET activity, and possibly more as circumstances allow. I teach Fase & I'll use some of the class within my classroom. This will add to our program base & get more kids (parents) to the confluence site.

Did this workshop help meet your school/district/state educational priorities, standards and assessments for the subject(s) and grade(s) you teach?

Yes	No	Somewhat
6	1	1

Please provide your overall comments about this workshop (strengths, limitations, areas needing improvement, comments about specific components, topics/areas most useful to you).

Like getting materials/make & takes/books with experiments to do. I little more time for small groups to plan their activities would be nice! Getting to the portal, connections to the standards and new visuals for the activities, and the make and takes were all useful. I felt that everything was positive and I felt there was a caring attitude! Was abundant information and activities – good presentations and plenty of practical applications. Enjoyed the variety. I would have liked more in-depth information, & perhaps covered fewer # of topics. Super workshop with meaningful, applicable activities. Loved the hands-on & take home ready-to-use materials! Please include me (Kerry Finsaas) in further workshops and training.